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U. S. Department of Agriculture

# Grand Rapids Growers Inc.

## Grand Rapids, Mich.



Grand Rapids  
Forcing Lettuce

# 1928

## annual of GARDEN SEEDS

*Specializing in Seeds for the  
Market Gardener*



Grand Rapids  
Forcing Tomato

D. N. Shoemaker



## Pencil Pod Black Wax Beans

The ideal bean for the market gardener. The pods are round, very long, tender, and entirely stringless. Extremely productive. See description in catalog page 2. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.



Pencil Pod  
Black Wax  
Beans.

## Danvers Half-Long Carrot

Best for the main crop, and a money-maker for the market gardener. Roots are smooth and handsome. Very productive. See description in catalog, page 6. Oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00, postpaid.



Danvers Half-Long Carrot.

## Table Queen Squash

A squash fit for a queen. Wonderful producer. The fruits are from six to eight inches long and four to six inches in diameter. The shell is hard and smooth. Color dark green with sometimes a blotch of red at pointed end. See page 20. Oz., 15c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50, postpaid.



Table Queen Squash.



Connecticut Yellow Globe Onion.

## Connecticut Yellow Globe Onions

Eastern grown seed. Grown for us in Connecticut. Onions are round, globe shaped. An earlier onion than the Southport, giving you the better price in the market. See page 14. Oz., 20c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25, postpaid.



PLEASE CUT OUT ON THIS LINE

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

## ORDER SHEET—Continued

[illegible]

## SPECIAL NOTICE:

We shall esteem it a great favor if you will give us in the spaces below the NAMES AND ADDRESSES of any Private Gardeners or Truck Farmers among your acquaintances. We wish to send them our SEED ANNUAL.

[illegible]



# Greetings, 1928



We esteem it a pleasure to present you with our Ninth Annual Seed Catalog, at the beginning of the year 1928, and wish to thank the Market Gardeners and friends in general for the patronage we have enjoyed. Our facilities are ample, our stock is complete and our quality unsurpassed; we hope to have the pleasure of serving you again. During the year we have greatly enlarged our stock, adding such varieties as we have had continual call for as well as the new strains that we are continually working on to perfect, and as we make a specialty of supplying the market gardeners (both upland and muck) with the best strains of seeds for their purpose, our experience has given us some knowledge of their needs.

As this catalog is compiled in an alphabetical order an index will not be necessary and has been eliminated.

## OFFICERS

R. Yonker, President  
T. E. Graham, Vice President  
Rudolph Zant, Sec'y-Treasurer  
P. D. Leavenworth, Manager

## GRAND RAPIDS GROWERS, INC.

Herman D. Van Hemert, Manager Seed Dept.

## How to Order and Remit—Read Carefully

We have enclosed in this catalog, order sheets, for your convenience. Please use them. Write your name, post office, shipping point or nearest express office, your county and state.

We prepay postage on all vegetable and flower seeds in packets, ounces, quarter pounds, half pounds, and pounds, at prices quoted herein to any point of the United States, or any of its possessions, and Canada, when cash accompanies the order; however, we do not pay postage on Beans, Peas, Corn, Farm Seeds, Onion Sets, or anything that is not specifically listed. "postpaid." If such items are wanted by Parcel Post, add sufficient postage as per parcel post rates given below.

All goods sent by Parcel Post are fully insured, and we guarantee their safe arrival. If there is any damage, notify us immediately.

Remittance should be made by Postal Money Order, Express Money Order, Certified Check, and if currency is sent, it should be by Registered Letter.

If goods are to be sent C. O. D. or Sight Draft, Bill of Lading Attached, 25% of the amount must accompany the order. On all goods sent C. O. D. the charges will be added.

Parties buying large quantities of any one variety, will be quoted special prices on application. All prices are net.

While we do not think there will be any serious changes, all prices are made subject to change without notice.

## Parcel Post Rates and Weight Limit

The weight limit within the first, second, and third zones is now 70 pounds, and within all other zones 50 pounds. Shipments of 20 pounds or over are cheaper if sent by Express beyond the third zone.

	1st lb. or Fraction	Ea. add. lb. or Fraction
1st Zone, within 50 miles of Grand Rapids.....	7c	1c
2nd Zone, within 150 miles of Grand Rapids.....	7c	1c
3rd Zone, within 300 miles of Grand Rapids.....	8c	2c
4th Zone, within 600 miles of Grand Rapids.....	9c	4c
5th Zone, within 1000 miles of Grand Rapids.....	10c	6c
6th Zone, within 1400 miles of Grand Rapids.....	11c	8c
7th Zone, within 1800 miles of Grand Rapids.....	13c	10c
8th Zone, all over 1800 miles from Grand Rapids.....	14c	12c
Canada, all parts.....	14c	14c

If in doubt obtain your zone rate from your postmaster.

## NON-WARRANTY

The seeds offered in this catalog have been carefully grown, selected, cleaned and tested for germination and we believe them to be first-class, but as so many conditions enter into making a crop, we give no warranty, either express or implied, as to description, purity or productiveness, and will not be responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once, and the money will be refunded.

## Grand Rapids Growers, Inc.

Cor. Wealthy  
and Ionia Ave., S. W.

Seed Merchants

GRAND RAPIDS  
MICHIGAN

## Asparagus

**CULTURAL DIRECTIONS.** One ounce of seed will sow 50 feet of drill and produce about 200 plants. Drill the seed in rows about eighteen inches apart, covering seed one inch. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following Spring. The soil cannot be made too rich. Use well rotted stable manure or **Pulverized Hen Manure**, and mix well with the soil. For home garden have the rows two or three feet apart and a foot apart in the row. For field culture, the rows should be four feet apart. Make broad trenches about a foot deep and fill in about three or four inches with well rotted stable manure, put two inches of dirt on top of the manure, then set the plants, spreading the roots and cover with an inch of soil. As the plants grow, gradually fill the trenches till the bed or field is level. Do not cut the plants till the third year. Every Fall before the seed is ripe, cut tops and burn them, and give good top dressing of manure. Remember, the bed well planted will last for at least twenty years. Treat it well.

★ **Mary Washington Rust-Resistant Asparagus.** The largest and most tender green asparagus. This is a decided improvement over the Pedigreed Washington and Martha Washington, being earlier, larger and longer. The credit for the development of this wonderful, rust-resistant strain is almost entirely due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

**Martha Washington.** Pedigreed seed. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

**Palmetto.** Oz., 10c; ¼ lb., 25c; 1 lb., 80c, postpaid.

**Conover's Colossal.** Oz., 10c; ¼ lb., 25c; 1 lb., 80c, postpaid.

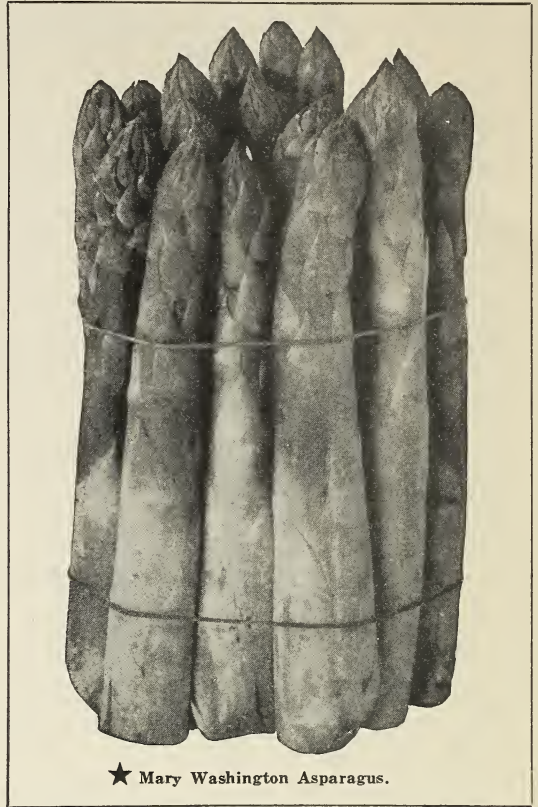
**Giant Argenteuil.** Oz., 10c; ¼ lb., 25c; 1 lb., 80c, postpaid.

## Asparagus Roots

**Palmetto.** One-year-old, \$1.50 per 100; \$12.00 per 1,000, not postpaid.

**Martha Washington.** One-year-old, \$2.25 per 100; \$15.00 per 1,000, not postpaid.

**Conover's Colossal.** \$1.50 per 100; \$12.00 per 1,000, not postpaid.



★ Mary Washington Asparagus.

## Beans

**CULTURAL DIRECTIONS.** One quart to 100 feet of drill; about three-fourths bushel per acre of Bush Beans. Beans thrive on a rich, warm, light soil. It is not safe to plant until about the middle of May as the seed will rot in cold, wet ground, and the plants will not stand frost. Plant dwarf beans in rows two feet apart and from four to six inches apart in the rows. Lima Beans should not be planted until June first, when the soil is thoroughly warmed through. Limas will rot in cold ground.

### Wax Poddied Varieties

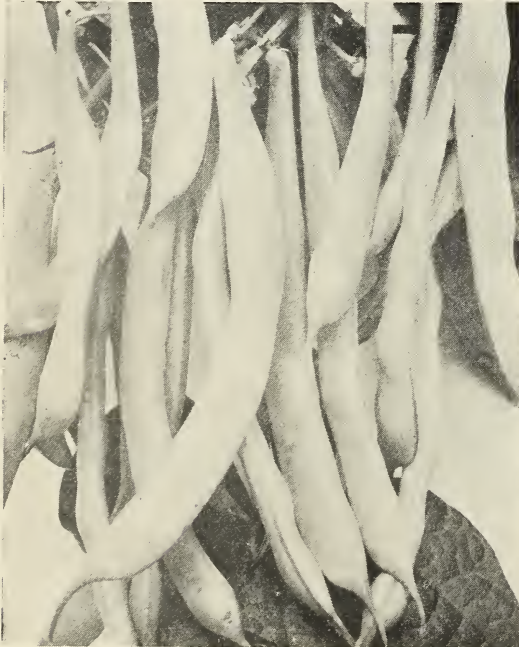
**Improved Golden Wax.** One of the earliest dwarf wax sorts. Pods flat, long, beautiful golden yellow, tender and stringless. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

★ **Pencil Pod Black Wax.** Pods round, very long, tender, and entirely stringless. Extremely productive. Best market gardeners' sort. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

★ **Burpee's New Kidney Wax.** A more vigorous and prolific grower than Wardwell's. Pods flat, brittle, fleshy, of a rich lemon color, stringless and well flavored. Qt., 50c; pk., \$3.25; bu., \$12.00, not postpaid.

**Prolific Black Wax (or German Black Wax).** The earliest Wax Bean. Pods short, curved, slightly flattish. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**Dwarf Kidney Wax.** Seed white, pods very long, straight, flat, white, wax-like, and very attractive. If picked when young, the pods are tender and stringless but if left too long become rather hard. Extremely productive. Qt., 45c; pk., \$3.00; bu., \$11.00, not postpaid.



Davis Kidney Wax Beans.

★ This variety recommended by the Michigan State College.





King of the Garden Beans.

# Lima Beans

## Pole Varieties

**King of the Garden Lima.** An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide, and uniformly 4 seeded. Qt., 60c; pk., \$4.00; bu., \$15.00, not postpaid.

**Early Jersey Pole Lima (Sieberts).** An early midseason variety. Very productive and highest quality. Pods 5 to 6 inches long, beans rather thicker than the King of the Garden, but of the same type. Qt., 50c; pk., \$3.50; bu., \$13.00, not postpaid.

**Early Leviathan Pole Lima.** A very early, large podded variety. The earliest of the large Lima class. Pods 5 to 6 inches long, containing 5 to 6 large, flat, white beans. Qt., 50c; pk., \$3.00; bu., \$10.00, not postpaid.

## Dwarf or Bush Varieties

**Burpee's Improved Bush Lima.** Both beans and pods are larger than the old type. The pods measure 5 to 6 inches long by 1 1/4 inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. Qt., 70c; pk., \$4.75; bu., \$17.00, not postpaid.

**Fordhook Bush Lima.** A most excellent variety and exceedingly popular with market gardeners. Pods about 5 inches long, containing 4 to 5 large, oval shaped, very thick, white beans. Qt., 70c; pk., \$4.75; bu., \$17.00, not postpaid.

**Henderson Bush Lima.** A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat white beans. Qt., 50c; pk., \$3.00; bu., \$10.00, not postpaid.

# Beets

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill. Five or six pounds per acre. Do not use stable manure if you want smooth beets with but few roots. Beets thrive on deep, rich, sandy land. For early crop sow in drills one foot apart, cover seed one inch. Sow as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to three inches apart in the row. Beets can be sown as late as July for main crop. (Continued on next page).

## Green Podded Varieties

★ **Burpee's Stringless Green Pod.** A very desirable dwarf, green podded sort for either home garden or market. Pods five to six inches long, thick, fleshy, perfectly stringless. Tender and delicious. Qt., 50c; pk., \$2.75; bu., \$10.00, not postpaid.

★ **Giant Stringless Green Pod.** Similar to Burpee's Stringless but pods are a little longer, straighter and more slender, more depressed between beans and slightly lighter in color, early, hardy, and of highest quality. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

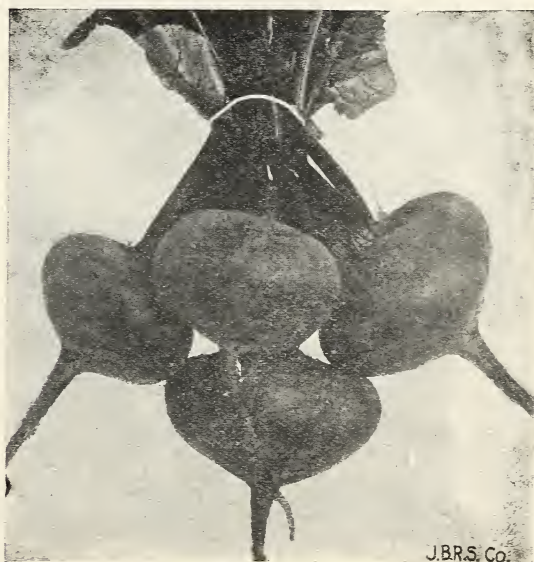
**Refugee or 1000-1.** A very productive, hardy, vigorous late sort. Pods 5 to 5 1/2 in. long, somewhat slender, round and slightly curved, almost stringless, and of good quality, color light green. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Refugee Stringless (Rogers).** A desirable stringless selection from Refugee 1000-1. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**Bountiful.** Best of the flat podded varieties. Pods 6 1/2 to 7 inches long, thick, flat and slightly curved. Stringless and of fine quality, color light green. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**Kentucky Wonder or Old Homestead.** The most popular, green podded, climbing bean, early and productive. Pods 8 to 9 inches long, very slender. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**Dutch Case Knife.** Pole Bean. Green snap pods, 7 to 8 inches long, straight, flat, brittle, of good quality; best as a shell bean. Beans very flat, ivory white. Qt., 45c; pk., \$3.00; bu., \$11.00, not postpaid.



Crosby's Egyptian Beets.

J.B.R.S. Co.



## BEETS—Continued

**Early Wonder.** An early variety. It is turnip shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

★ **Detroit Dark Red.** The best for the market garden or home use. Roots uniformly smooth, of medium size and globe shaped, skin dark red, flesh solid vermilion-red. Tops are small, upright, dark green, shaded red. Oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

**Crosby's Egyptian.** Where an early market sort is desired, our strain is unequalled. Roots a flattened globe shape, skin very dark red, flesh a trifle lighter, tops small. Oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

**Eclipse.** An early variety with small tops and medium sized, round, bright red roots, flesh bright red. Oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.

**Early Blood Turnip, Improved.** The old standard table beet. Roots nearly round or slightly flattened, bright red, zoned and of good quality. Not so early as Detroit, but with a larger, coarser top. Oz., 10c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00, postpaid.

## Mangel or Stock Beets

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill, six pounds per acre. Sow early in the spring, in rows about two feet apart; cover seed one and one-half inches deep, pressing the ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

**Mammoth Long Red.** Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.

**Golden Tankard.** Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.

## Sugar Beets

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for Winter feed. They are also excellent for poultry.

**Giant Feeding Sugar.** Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.



★ Danish Ballhead Cabbage.



Premium Flat Dutch Cabbage.

## Cabbage

**CULTURAL DIRECTIONS.** One ounce will produce about 2,000 plants; 10,890 plants will plant an acre of early cabbage; and 7,260 plants for an acre of late. Eight ounces of seed will plant an acre of early and four ounces an acre of late cabbage. For early cabbage, sow seed in hotbeds in January or February. Transplant as early as possible to the open ground about two feet apart each way. For late cabbage, sow seed in the open ground in May and transplant about July first in rows  $2\frac{1}{2}$  feet each way.

★ **Golden Acre.** A new, round-headed, early cabbage. Heads round, very hard. As early as the Jersey Wakefield. Some claim it to be a week earlier. This variety matures two or three weeks earlier than the Copenhagen Market, but is otherwise quite similar. Owing to the earliness and remarkable uniformity, Golden Acre will prove to be the most profitable early cabbage for the market gardeners. Oz., 75c;  $\frac{1}{4}$  lb., \$2.25; lb., \$8.00, postpaid.

**Early Jersey Wakefield.** Market gardeners in general consider this the best early variety. Conical in shape, the heads are very uniform in shape and very solid. Our stock is dwarf, compact and extremely early. Oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Earliest of All.** A new Danish introduction of the Copenhagen type, heads are perfectly round, solid and of uniform size. Fully 7 to 12 days earlier than Jersey Wakefield. Average about 4 lbs. each. Oz., 40c;  $\frac{1}{4}$  lb., \$1.25; 1 lb., \$4.00, postpaid.

**Charleston or Large Wakefield.** About a week later than the Early Jersey Wakefield. Heads are larger, fully as solid, and less pointed. Oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

**Copenhagen Market.** Nearly as early as the Jersey Wakefield. Stems short, heads large, round and solid, with few outer leaves. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.00, postpaid.

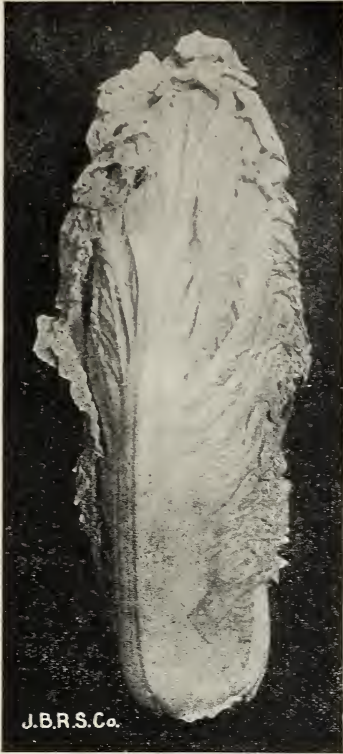
**All Seasons.** Heads large, round and very deep; can be planted for early or late crop. Good keeper. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Surehead.** All sure to head. Late cabbage of the Flat Dutch type; a splendid keeper. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.25, postpaid.

★ **Danish Ballhead.** Short stemmed, heads round, very solid and heavy. Splendid keeper, hardy, and the best Winter sort. Oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

★ This variety recommended by the Michigan State College.





Chinese or Celery Cabbage.

## CABBAGE—Continued

**Premium Flat Dutch.** Second early variety, highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender. Oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

**Early Winningstadt.** Medium early, short stem, heads solid, fine grained, cone shaped, very productive and excellent quality. Oz., 40c;  $\frac{1}{4}$  lb., \$1.25; lb., \$4.00, postpaid.

**Glory of Enkhuizen.** Excellent, medium early, short stemmed, heads large, round and very solid. A long keeping variety. Oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Henderson's Early Summer.** Heads medium in size, round, somewhat flat, compact and solid. Ten days later than Jersey Wakefield and one of the best second early sorts. Oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Large Late Drumhead.** Oz., 25c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.

**Drumhead Savoy.** Very large, solid heads. Dark green, superior quality. Oz., 20c;  $\frac{1}{4}$  lb., 75c; 1 lb., \$2.00, postpaid.

**American Savoy.** Large, flattish heads, very curly and hard. One of the best Savoyes. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.50, postpaid.

**Mammoth Rock Red.** Heads solid, of good size and quality. Oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

**Red Stone Head.** A new Danish introduction and exceptionally good, forming big uniformly round heads, smooth, hard, of a glowing dark red color. A good keeper that will last long into the Winter, when fully matured. Oz., 25c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

## Brussels Sprouts

**CULTURAL DIRECTIONS.** Same as for cabbage. Half Dwarf. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## Celery Cabbage

**CULTURAL DIRECTIONS.** One ounce will produce 2,000 plants. Do not sow seed till the last of May, as earlier sowing generally results in most of the plants going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned. For late crop may be sown as late as August tenth. Late crop is generally trenched with boards. Make trench about six feet wide, pull the head, cutting off roots and place side by side and trench. Bank outside the boards with dirt and protect the tops with straw, putting boards over tops. Remove as wanted during early winter months.

**Chihili.** This new vegetable is becoming more popular every year and is a money-maker for the market gardener. It has a delicate cabbage flavor, much milder than cabbage. The heads are long, about 16 inches, rather slim, coming to a point at the top. Color a very dark bluish green, with the inner leaves and stalks blanched to a beautiful snow white. Oz., 50c;  $\frac{1}{4}$  lb., \$1.50; lb., \$5.00, postpaid.

## Swiss Chard

**CULTURAL DIRECTIONS.** One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer and if given a little protection during the Winter, will produce early greens in the Spring.

**Lucullus.** Leaves large and curly. Plant grows about two feet high, midribs are very broad and are a good substitute for Asparagus during the summer months. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.



Swiss Chard, Lucullus.



## Carrots

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; two pounds per acre. For early crop, sow in April or May, and June to July for late. Sow seed half an inch deep in rows 12 inches apart and thin to three inches apart in the row. Plant in rich, sandy loam.

**French Short Horn.** Very early bunching Carrot; best for forcing. Roots orange red in color, about three inches long, tender and sweet. Oz., 10c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.25, postpaid.

★ **Chantenay.** A medium early, half-long variety for the early market. Roots five or six inches long, smooth and tapering; orange-red in color. Used largely for bunching. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

★ **Danvers Half Long.** The best main crop sort. Roots smooth and handsome. Very productive. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Long Orange.** Good variety for deep, sandy soil. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Oxheart or Guerande.** Very short, thick and stubby. Very desirable for heavy clay soil, as it is easily harvested. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**White Belgian.** Large white stock carrot. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 80c, postpaid.



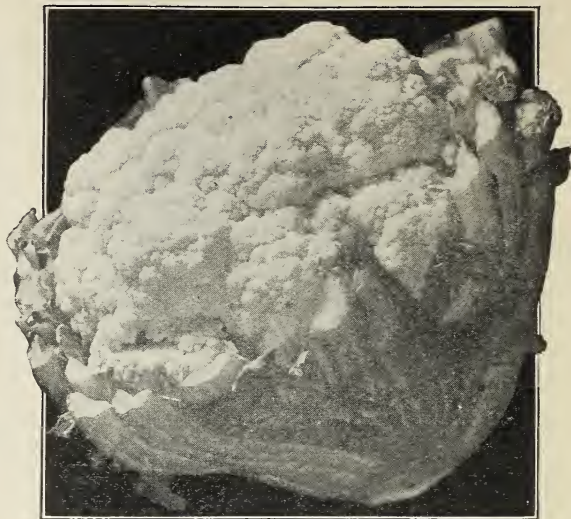
Long Orange Carrots.

**Yellow Belgian.** Grows one-third out of the ground. Very large, long yellow stock carrot. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 80c, postpaid.

**Scarlet Horn.** A small, early, stump-rooted variety of good flavor and quite coreless. The roots will average about 3 inches long. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Nantes.** A very superior carrot. It is coreless, brittle, fine-grained and of fine mild sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical and very stump-rooted. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

★ **Feonia.** A cross between Nantes and Chantenay, combining the tenderness of the former with the keeping qualities of the latter. The long obtuse, cylindrical roots are a beautiful scarlet and practically coreless. Oz., 15c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50.



Danish Perfection Cauliflower.

## Cauliflower

**CULTURAL DIRECTIONS.** One ounce of seed will produce 2,000 plants. Four ounces of seed to an acre. Directions about the same as Cabbage, except planting in rows about 3 feet apart and 18 inches apart in the row. When plants begin to head, tie leaves up around the heads to protect from the sun.

**Select Snowball.** A very fine strain of this variety grown from selected heads. Oz., \$2.00;  $\frac{1}{4}$  lb., \$6.00; 1 lb., \$20.00, postpaid.

**Danish Perfection.** The self-protecting cauliflower, so called on account of the spiral-shaped manner in which the leaves grow around the stem, thereby protecting the head with little, if any, tying. A cross between Early Erfurt and Danish Dry Weather. Heads snow-white, very compact and solid. Oz., \$2.00;  $\frac{1}{4}$  lb., \$6.00; 1 lb., \$20.00, postpaid.

**Extra Early Dwarf Erfurt.** An excellent sort, producing good sized creamy white heads. One of the best for general cultivation. Oz., \$2.00;  $\frac{1}{4}$  lb., \$6.00; 1 lb., \$20.00, postpaid.

**Danish Dry Weather.** Oz., \$2.00;  $\frac{1}{4}$  lb., \$6.00; 1 lb., \$20.00, postpaid.



French Short Horn Carrots.

## Cress or Pepper Grass

**CULTURAL DIRECTIONS.** Sow early in the spring in rich, well prepared soil, in rows about fifteen inches apart. Thin to four inches apart in the row.

**Extra Curled.** Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.



## Celery

**CULTURAL DIRECTIONS.** One ounce will produce from 5,000 to 10,000 plants. Two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer.

For early crop sow seed in hotbeds or greenhouse in March. Make seed bed very fine, sow seed broadcast and pack soil. Transplant in June in rows three or four feet apart. Early Celery is bleached with boards or paper. For late crop sow seed in April or May in open seed beds and transplant in July. Bank with muck or dirt and trench in the field in October.

**The New Golden Self Blanching.** This new type of Golden is grown in France, and in some ways seems to be an improvement on the Old Golden Self Blanching. It is a longer stalk and a more vigorous and rapid grower, and not so badly affected by blight or disease. It can be grown on muck, which will not grow the old Golden Self Blanching, either on account of exhausted condition of the soil or the soil being too badly infected with disease spores. It makes a magnificent growth of tall, broad, flat stalks of a lighter shade of yellow. If seed is sown later in the open ground and transplanted in July or August, so that plant is not over ripe when trenched, it will come out crisp and hard up to the first of January. This strain is the leading variety grown today. Oz., \$1.25; ¼ lb., \$4.50; ½ lb., \$8.00; lb., \$16.00, postpaid.

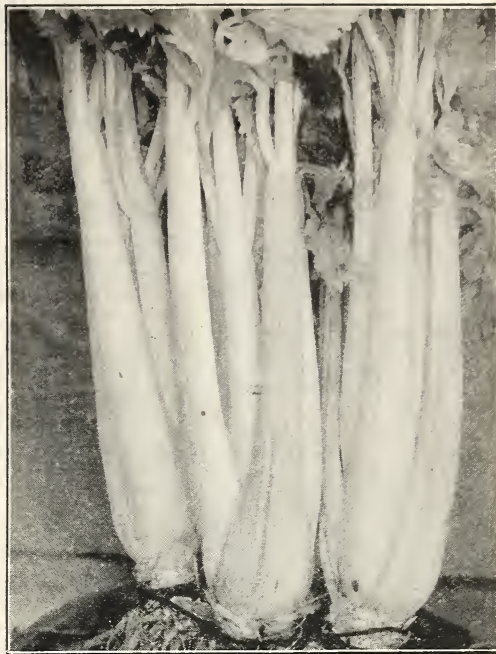
**Easy Blanching.** Our strain of this valuable variety is superior to most strains from the fact that it bleaches evenly, leaving no green, unbleached stalks. Does not become soft after bleaching, but remains firm, brittle and sweet. The stalks are very thick and quite tall. It is about two weeks later than the Golden Self Blanching, and may be used either for early or late celery. When grown for late celery, the seed should be sown later and transplanted from the middle to the last of July, and when trenched with dirt will keep till January and come out of the trenches firm and brittle. It has no superior as to eating quality or flavor. It is almost immune to blight and no crop has ever been lost from disease. Oz., 75c; ¼ lb., \$2.50; lb., \$10.00, postpaid.

**Growers Golden.** A distinct new variety embracing the quick growing and keeping qualities of the French New Golden Self Blanching, but growing a shorter stalk is much preferred. It is very uniform in height, grows a big stalk of superior quality, blanching quickly to a cream yellow color. The market gardeners prefer it to any other variety as they can get the top-notch prices in the market. Oz., \$1.25; ¼ lb., \$4.50; ½ lb., \$8.00; lb., \$16.00, postpaid.

**Golden Plume.** The grandest new variety introduced in many years. It seems to be an intermediate between the Golden Self Blanching and Easy Blanching. While it is a yellow celery, it is a lighter shade of yellow than the Golden Self Blanching. Plant is a more vigorous grower, nearly as early, stalks are thicker, and not quite so flat as our New Golden Self Blanching which it resembles. Blanches easily and does not become soft after bleaching. Seed is very pure, no green stalks or off types appearing and no hollow stalks. Plants very large and will turn out more boxes to the acre than any variety grown. Oz., \$2.00; ¼ lb., \$8.00; lb., \$30.00, postpaid.

**Newark Market.** A superior strain of green celery. The stalks are large, thick and fleshy, very brittle, crisp and of a fine flavor. Blanches easily. Oz., \$1.35; ¼ lb., \$5.00; lb., \$18.00, postpaid.

**Pride of the Market.** A dwarf thick-stalked variety, vigorous grower, not easily blighted, and yields about as many boxes per acre as the White Solid, but not so good a keeper, and should be marketed after the Golden Self Blanching and before the White Solid. Our seed is grown by the originator. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.



Golden Plume Celery.

**Grower's Wonderful Celery.** A distinct and valuable early variety. The plants are semi-dwarf, very vigorous, and are not so susceptible to blight and other Celery diseases. It has a very full heart which bleaches quickly to a beautiful golden yellow color. Its quality is surpassed by none, and its handsome appearance commands a ready sale in any market. An excellent sort for both home or market garden. It is all the name implies. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

**Winter Queen.** Of very stocky, dwarf growth and one of the best for its winter keeping qualities. Our strain has a large heart and presents a handsome appearance when bunched. Oz., 25c; ¼ lb., 75c; lb., \$2.50, postpaid.

**French Success.** A late maturing green celery, but the best of all for keeping qualities. Oz., 35c; ¼ lb., \$1.00; lb., \$3.50, postpaid.

**Fordhook Emperor.** Quite dwarf and stocky with large, full light yellow heart. Stalks broad, thick and crisp. Very tender and brittle. Oz., 40c; ¼ lb., \$1.25; lb., \$4.50, postpaid.

**Golden Self-Blanching.** Old style, American grown seed. Oz., 75c; ¼ lb., \$2.50; 1 lb., \$8.00, postpaid.

**Columbia.** Very brittle and crisp, sweet and nutty. So tender it is hard to pack for shipping. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**Soup or Cutting.** The leaves are used for flavoring soups, etc. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Celeriac or Turnip-Rooted Celery.** Oz., 25c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

## Corn Salad

**CULTURAL DIRECTIONS.** One ounce for 100 feet of drill. Sow in August or September for Fall or Spring use. Drill about one inch deep in rows twelve inches apart. Thin and keep free from weeds. Protect in Winter by light covering of straw. Use as a salad.

**Large Seeded.** Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



# \*Michigan State College Disease-Resistant Strains of Celery

## Choose the Variety to Fit Your Market

For nearby markets where a soft, quick blanching variety is wanted—Wonderful or Golden Plume.  
For long shipment or blanching in storage, (a) if the soil is not infested with "Yellows"—Golden Self Blanching; (b) if soil is infested with "Yellows"—M. S. C. strain, yellows-resistant Golden Self Blanching.

For markets wanting a green celery blanching in boards or light dirt covering, (a) Standard type—Easy Blanching; (b) Fancy, ruffled leaf type—Curly Leaf Easy Blanching (M. S. C.) strain.

For Winter markets, celery to be dirt blanched—Pascal or other Winter celeries.

## \*Michigan State College Strain of Golden Self Blanching Celery

### YELLOWS RESISTANT

### Recommended for Soil Infested with Yellows

This strain of Golden Self-Blanching Celery has been produced at the Michigan State College as a result of several years investigation and test by the pathologists of the Department of Botany. The M. S. C. Strain is of the type of the old-fashioned yellow celery so extensively produced a few years

ago and now almost superseded by the green varieties that are resistant to Yellows. This new selection is practically a pure line of Golden Self-Blanching with resistance to soil sickness or Yellows as an added quality.

This variety bleaches in ten days to two weeks, ships well, keeps well in storage and the beautiful golden-yellow color in the leaves and the creamy white color of the stalks is unsurpassed by any other variety. It is not a quick-blanching celery with soft stalks like some of the newer yellow sorts. The M. S. C. strain is resistant only to the Yellows disease and must be sprayed to protect it against the blights that affect the foliage and stalks.

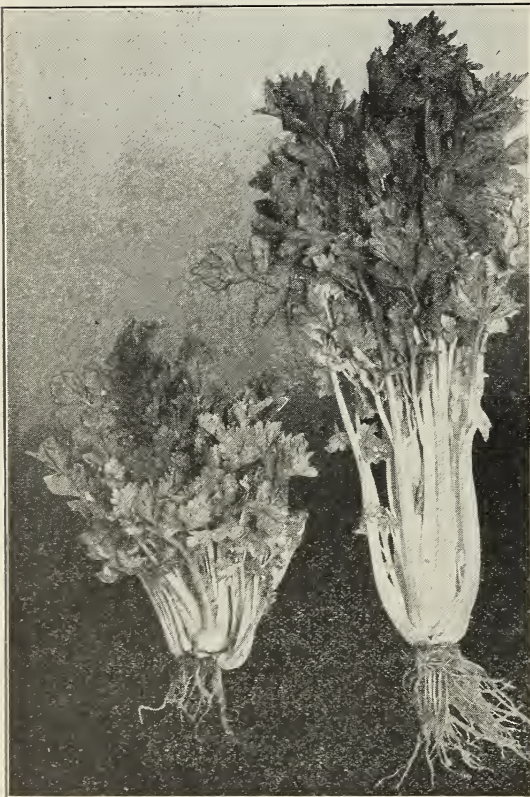
The seed offered for sale has been produced in co-operation with the U. S. Department of Agriculture in California. Seed for increase is furnished by the Department of Botany from their own selections and sent to California for increase by government experts.

The following new prices are announced for 1928:  
½ oz., 1.00; 1 oz., 1.50; ¼ lb., \$5.50; 1 lb., \$20.00.

## \*Curly Leaf Easy Blanching

### M. S. C. Strain

This is a new selection from Easy Blanching celery possessing all of the qualities of that well known strain, and in addition presenting an exceptionally handsome appearance due to its curled and ruffled leaves. This seed is a pedigreed strain produced in California by the U. S. Department of Agriculture from seed furnished by the Department of Botany, Michigan State College. This seed is especially recommended for use on diseased soil where Golden Self Blanching celery does poorly and where a green celery is suitable to market demands. It can readily be recognized even in the seedling stage and when this seed comes into general use, substitutions of other varieties can readily be detected. Price, ½ oz., \$1.00; 1 oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00.



M. S. C. Strain Golden Self-Blanching Celery grown in soil infested with "Yellows" at South Denver, Colorado, contrasted with a commercial strain grown in the same field. One crop was stunted by "Yellows" and was largely unmarketable, the other produced stalks of uniformly high quality.

★ This variety recommended by the Michigan State College.



# Sweet Corn

**CULTURAL DIRECTIONS.** One pint for 100 hills; about six quarts per acre. Early corn is planted in rows  $2\frac{1}{2}$  to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for the table eight or nine weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills three to four feet apart, and it will be ready for use in from ten to twelve weeks from date of planting.

★ **"Sunshine."** A valuable new yellow variety for the market grower or the private gardener. It was originated by Professor Yaeger of the North Dakota Experiment Station, from a cross between the Golden Bantam and Gill's Early Market and combines the earliness and large size of ear, of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to ten days earlier than Golden Bantam, and has a much larger ear, the ears averaging eight and one-half inches long, with twelve to fourteen rows. Everyone who has tested this corn has much praise for its quality and extreme earliness. Especially valuable to the market grower. Qt., 60c; pk., \$4.50; bu., \$12.00, not prepaid.

★ **Early Surprise Sweet Corn.** This corn is really a Surprise. Matures in 70 days. It is a white eared and white cobbled corn of very good quality. Ears 7 to  $7\frac{1}{2}$  inches long, growing on stalks about five feet tall. Planted at the same time, it is a week to 10 days earlier than Early White Cory. If you want to have the first sweet corn on the market, be sure to plant Early Surprise. Qt., 50c; pk., \$3.00; bu., \$10.00, not postpaid.

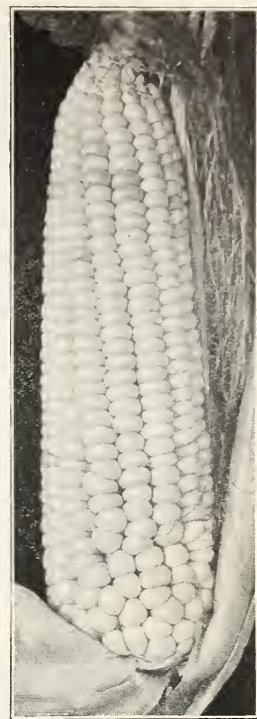
**Bantam Evergreen.** This new variety combines all the good qualities of Golden Bantam and Stowell's Evergreen. Has the bright golden color and tender kernels of Golden Bantam and the flavor and sweetness of Stowell's Evergreen. Ears much larger than Bantam; not quite as large as Evergreen, but much earlier. Stalks are full leaved and usually bear two well-developed ears. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Early White Cob Cory.** One of the very earliest and best of all extra early sweet corn. Ears 7 to 8 inches long, fairly sweet, tender and white. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Pink Cob Cory.** The earliest corn in existence. A week earlier than the Early White Cob Cory. Stalks short; ears close to the ground. Cob when ripe a bright pink, tinging the grain a reddish pink. Kernels white when ready for use. Qt., 50c; pk., \$3.00; bu., \$10.00, not postpaid.

★ **Golden Bantam.** It is a hardy, early maturing variety of very dwarf growth. The cob is small but fills out nicely with large deep cream-colored kernels, which turn to yellow when entirely ripe. No home garden should be without a plot of this excellent corn. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

Golden Bantam  
Sweet Corn.



Early White Cob Cory.

**Stowell's Evergreen.** The most popular late sweet corn. More extensively planted than any other sort, being the general favorite with the market gardeners. Ears are of good size, grain deep, tender and sugary. Qt., 30c; pk., \$2.25; bu., \$8.00, not postpaid.

**Early Evergreen.** Has all the merits of the "Stowell's" and matures about 10 days earlier. It is a splendid variety for the market gardener. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Early Market (Portland).** A first early corn with decided merit for the market gardener. Ears are 6 to 7 inches, 12 to 14 rowed, with exceptionally white grain. Qt., 50c; pk., \$3.00; bu., \$10.00, not postpaid.

**Whipple's Early.** Qt., 40c; pk., \$2.50; bu., \$9.00, postpaid.

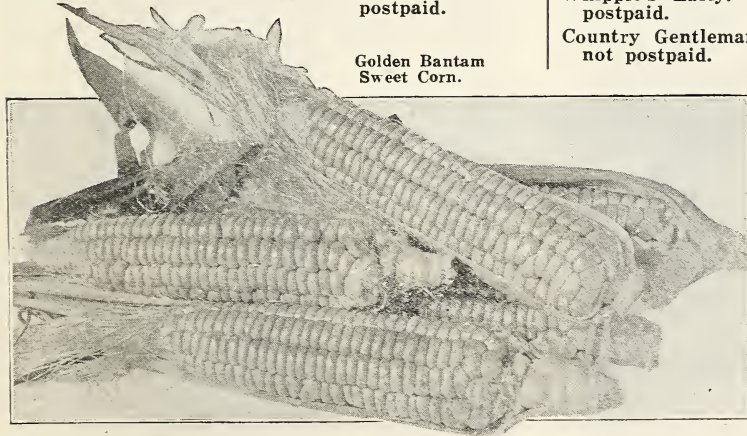
**Country Gentleman.** Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Early Minnesota.** Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

**Black Mexican.** Very early. Kernels turn bluish black when ripe. Qt., 40c; pk., \$2.00; bu., \$9.00, not postpaid.

## Pop Corn

**Selected White Rice.** A very handsome and prolific white Popcorn. Ears are 5 to 7 inches long. The kernels are long, pointed and somewhat resemble rice. Productive, excellent quality, crisp and delicious. Lb., 25c, not postpaid.





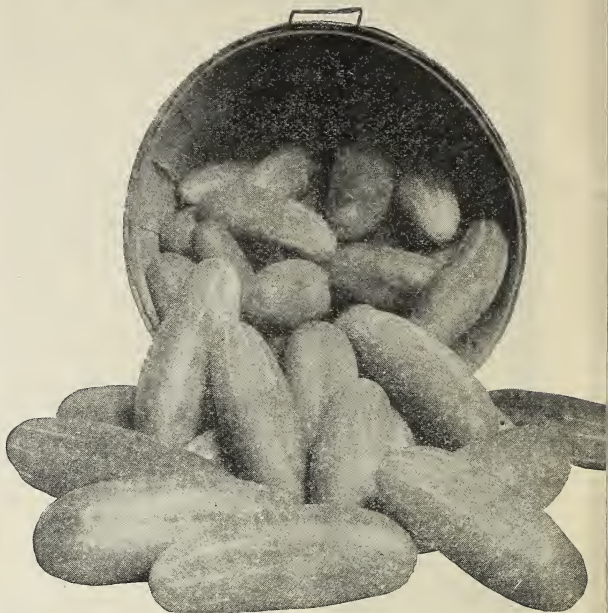
# Table and Pickling Cucumbers

**CULTURAL DIRECTIONS.** One ounce of seed to fifty hills. One to two pounds per acre. Cucumbers should not be planted until the ground is warm, about June first. For pickles, they may be planted as late as July first. They require a warm, rich, sandy soil. Plant in hills about four feet apart and about eight seeds to the hill. When all danger from insects is past, thin to three or four of the strongest plants.

**Grand Rapids Forcing.** Improved strain. By years of constant careful selection one of our growers has developed the present strain. A very heavy cropper. Fruits are very symmetrical and beautiful in color and breed true to type. It is an ideal forcing variety. Oz., \$3.00;  $\frac{1}{4}$  lb., \$10.00, postpaid.

**Chicago Pickling (or Westerfield's).** Fruit of medium size, pointed at both ends, and makes a firm pickle. Oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.25, postpaid.

**Davis' Perfect.** One of the products of our Eugene Davis, produced by crossing the White Spine variety with a long English forcing cucumber. The Davis' Perfect is one of the most prolific sorts. The fruit is long, slim, and holds color till nearly ripe. Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.50, postpaid.



Grand Rapids Forcing Cucumber.

**Early Fortune.** One of the most productive sorts now grown. Fruit symmetrical, about nine inches in length, round and beautiful dark green in color, which does not fade. Flesh very brittle and crisp, with small seed cavity. Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.50, postpaid.

**White Spine (Improved).** A very fine, early strain. Fruit very rich, dark green, symmetrical, thick and nearly square ended, vigorous and productive. Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Improved Long Green.** A standard late, well known table sort. 12 to 14 inches long, slender, more or less warty, tapering towards the stem end, color dark green, flesh white and firm. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

**Stokes Windermoor Wonder.** A very handsome emerald green variety. It was first introduced in 1917 and developed by crossing the English Telegraph with the Davis' Perfect, the result being a combination of the important features of each. The fruits average 12 inches in length and command a high price. Oz., 40c;  $\frac{1}{4}$  lb., \$1.40; lb., \$5.00, postpaid.

**Nichols' Medium Green.** Color dark green, flesh crisp and tender, medium size, straight and smooth. Very productive. Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

**Arlington White Spine.** One of the earliest and very productive. Fruit uniform, of bright green color. Used for early slicing. Oz., 15c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25, postpaid.

## Kale or Borecole

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow from August 15th to October in rows, eighteen inches apart, and they will yield greens during Fall and Winter. They are improved by freezing.

**Dwarf Green Curled.** Postpaid, oz., 15c;  $\frac{1}{4}$  lb., 40c.  
**Tall Green Curled.** Postpaid, oz., 15c;  $\frac{1}{4}$  lb., 40c.



Long Green Cucumber.

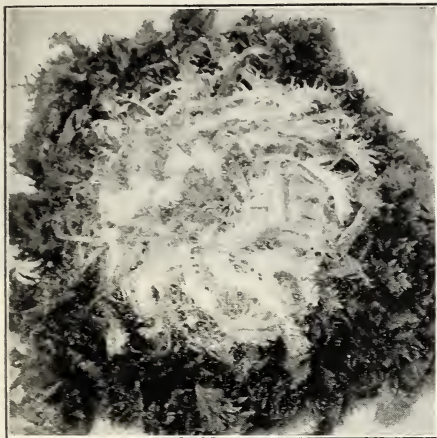


## Egg Plant

**CULTURAL DIRECTIONS.** One ounce to 1,000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March. Transplant about June 1st in rows about three feet apart and two feet apart in the row.

**Black Beauty.** Early and productive. Fruit large and of a rich glossy black color. Postpaid, oz., 40c;  $\frac{1}{4}$  lb., \$1.40; 1 lb., \$5.00.

**New York Purple.** Postpaid, oz., 40c;  $\frac{1}{4}$  lb., \$1.40; 1 lb., \$5.00.



Large Green Curled Endive.

## Endive

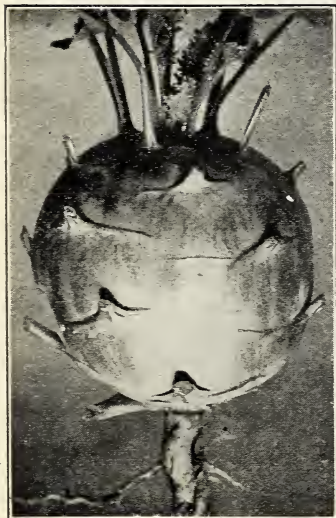
**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Sow in rows about fifteen inches apart and thin to one foot apart in the row. Sow seed for Fall crop in June or July. When nearly full grown tie outer leaves together bringing them up over the head for blanching.

**Broad Leaved Batavian.** Postpaid, oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00.

**Moss Curled.** Postpaid, oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00.

**Large Green Curled.** Postpaid, oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00.

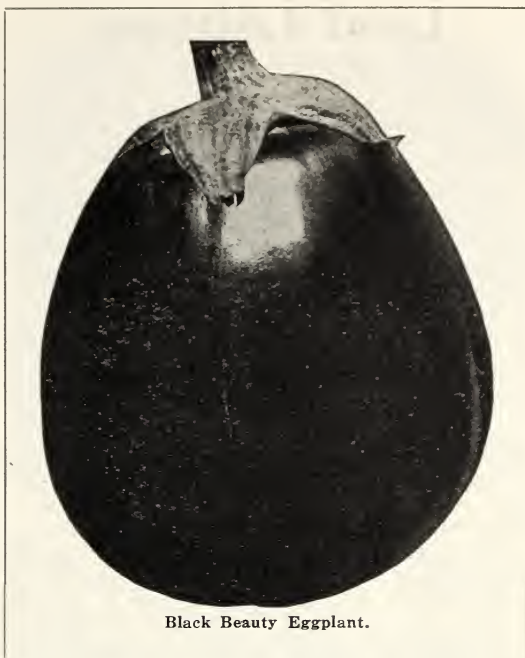
## Kohl-rabi—Turnip Rooted Cabbage



White Vienna Kohl-rabi.

**CULTURAL DIRECTIONS.** One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the Spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for Fall use. Should be used when young and tender.

**Early White Vienna.** Very early, small tops, can be planted close together; best for forcing, or field culture. Postpaid, oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00.



Black Beauty Eggplant.

## Leek

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill. Two or three pounds per acre. Sow in May in rows fifteen to eighteen inches apart and thin to six or eight inches apart; generally sown in trenches and covered with half an inch of soil, or they may be sown in seed beds and transplanted. When grown for the market they are left in the field all Winter and pulled early in the Spring.

**American Flag.** Stem about ten inches long by two inches thick. A strong vigorous plant with mild flavor. One of the best sorts for the market garden. Postpaid, oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00.



American Flag Leek.



## Leaf Lettuce

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix Pulverized Hen Manure well with the soil and sow seed very early in the Spring. For leaf lettuce, sow in rows twelve inches apart and do not thin until plants are big enough to use. Head lettuce should be sown in rows twelve inches apart and thinned to eight inches apart in the row.

### ★ Grand Rapids Forcing, Washington Strain

This splendid strain was first produced by plant selection by the honored W. W. Tracy of the Agricultural Department at Washington. Mr. Yonker procured some from Eugene Davis, sent him by Mr. Tracy. Mr. Yonker, by careful plant selection, has kept it up to its original purity. It is absolutely true to type and is more like the original Grand Rapids Forcing as it came from the hands of Eugene Davis. Mr. Yonker is well qualified to continue the breeding of this variety and can be depended upon to keep it up to its present high standard. There are very few if any sports. Color a light green; heads very heavy; leaf crisp, tender and curly; quality of the best. We grow our stock seed in the greenhouse and send to one of the best Lettuce seed growers on the Coast to grow the seed crop. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

**Grand Rapids Forcing, Ohio Strain.** An exceptionally good strain of the old type of forcing variety and is especially adapted to mid-winter crop in the greenhouse. The leaf is dark green, of rapid upright growth, and curly. The quality is very desirable and will retain its freshness a long time after being cut. A great favorite in the Ashtabula and Cleveland lettuce markets. Oz., 10c; ¼ lb., 50c; 1 lb., \$1.75, postpaid.

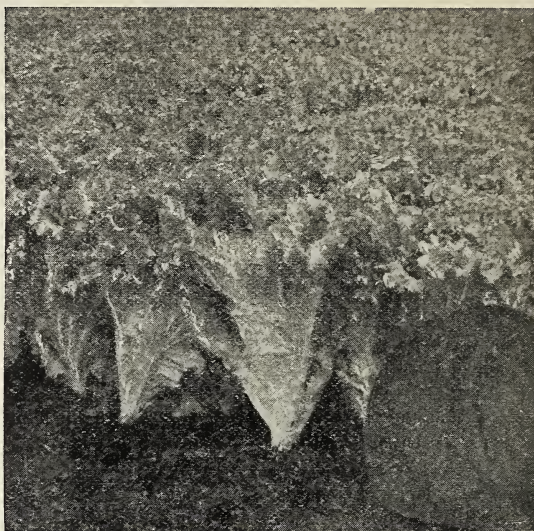
**Early Curled Simpson.** An early loose leaf variety. One of the best sorts for the home garden. Postpaid, oz., 20c; ¼ lb., 75c; 1 lb., \$2.00.

★ **Black-Seeded Simpson.** One of the best loose leaf varieties for the home garden or for the market garden, for outdoor sowing. Can be grown all through the season. Very tender. Postpaid, oz., 20c; ¼ lb., 75c; 1 lb., \$2.00.

**Prizehead.** A crisp and tender loose-leaved non-heading sort, color light brown on a medium green base, quality good. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.



★ Big Boston Lettuce.



★ Washington Strain of Grand Rapids Forcing Lettuce.

## Head Lettuce

★ **Big Boston.** Our Big Boston Lettuce seed is grown for us by one of the most careful firms of seed growers in the world. It heads best in cool weather of early Spring and late Fall. We do not recommend it for the hot Summer months. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Unrivalled or Green Leaved Big Boston.** French grown. Unrivalled heads better in hot weather than Big Boston, which it resembles, but does not have the red tinge. The heads are firm and of high quality. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

★ **Salamander.** A large, firm head, leaves light green, broad, thick, somewhat crumpled, closely overlapping so that they blanch to a creamy white. Oz., 15c; ¼ lb., 35c; 1 lb., \$1.25, postpaid.

**All Seasons.** Heads very large, grayish green, leaves rather thick but blanch to a beautiful golden yellow. This variety wants hot weather to head well and is not satisfactory for early Spring crop. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Iceberg.** A large, crisp lettuce, very tender, stands hot weather better than most varieties, but has not been grown successfully on our muck. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

★ **Hanson.** Forms large flat head, outer leaves are bright green, inner leaves white, quality good. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**May King.** A handsome, small, extremely early, compact heading variety, fine quality. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

**Brown Dutch.** Forms a good firm head, yellowish buttery inside and of good quality. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

**Brown Curled.** A curled or crisp heading variety, medium dark brown, leaves quite curly. The texture is rather coarse but the quality is good. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

**California Cream Butter or Royal Summer Cabbage.** A popular variety for Autumn and Winter use. Forms a large head, which is very buttery, and of a rich, golden yellow inside. Oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

**Early White Self-Folding or Trianon Cos Lettuce (Romaine).** We consider this the very best strain of the Cos variety. Very uniform in type, and forms a compact, firm head. Color dark green outside and beautifully blanch inside. Very crisp; sweet. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

★ This variety recommended by the Michigan State College.



# Muskmelons

**CULTURAL DIRECTIONS.** One ounce will plant 50 hills, one pound an acre. Melons do best in a rich, sandy soil. Hills should be from four to six feet apart. Plant ten to twelve seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects is past, thin to four good plants to the hill.

★ **Hearts of Gold.** Original strain, grown by the late Roland Morrill. We still have a little of this pedigreed seed to offer, subject to being sold out. Oz., 60c; ¼ lb., \$1.75; 1 lb., \$5.25, postpaid.

★ **Hearts of Gold.** Grown from Morrill Pedigreed Seed by one of the best growers of melon seed in the trade. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**Lake Champlain.** Very early, fifty-seven days from seed to market. A medium-sized melon, nicely netted, flesh deep, sweet and melting, of golden yellow color. Immensely productive. The market gardener has long been looking for the Lake Champlain. It is a money maker. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**Extra Early Osage.** A very fine melon of the Osage type. Seed cavity very small. Flesh deep, rich yellow color, very sweet and delicious. At least one week earlier than the Osage melon, smaller, vine prolific. Price, postpaid, oz., 15c; ¼ lb., 40c; 1 lb., \$1.50.

★ **Extra Early Knight.** The earliest high quality melon and especially adapted for growing in the far North. A medium-sized variety with oblong fruit distinctly ribbed and well covered with a close gray netting; skin deep green, turning to golden at maturity; flesh fairly thick, exceedingly sweet and of a bright green color. Worthy of a place in every garden. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

## SEMESAN

A mercuric disinfectant for general agricultural purposes and the control of seed, plant and soil diseases. Treat all your seeds with Dupont Semesan. It increases germination and kills all disease that is carried on the seed. Fully described on page 48.



Extra Early Osage.



★ Hearts of Gold Cantaloupes.

**Hoodoo.** Vine vigorous, quite blight-resistant and very prolific. Flesh orange in color. Fruit medium size; quality, sweet and delicious. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**Emerald Gem.** Unquestionably one of the best and earliest melons for home garden and local markets and in our opinion the best for quality; of medium size, a flattened globe in form, irregularly and distinctly ribbed and lightly netted; color deep emerald green; flesh very thick, sweet and of rich salmon color; seed cavity exceedingly small. Oz., 20c; ¼ lb., 60c; 1 lb., \$2.00, postpaid.

**Honey Dew.** Fruit large, surface smooth and hard without ribbing or netting, flesh light emerald green, thick, very tender and melting with an extreme sweetness found in no other melon. Is an excellent shipping and keeping sort. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**Edwards' Perfecto.** Fruit very uniform in size, nearly round and densely covered with a hard, gray netting. Flesh very thick and of a beautiful salmon color, shading to green as it nears the rind. Perfecto has the deepest flesh and smallest seed cavity of any type of the Rocky Ford. Good shipping melon, extremely productive and most delicious eating. The coming market melon. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

**Osage.** A rather large, oval melon of very superior quality, fruit dark green, slightly ribbed and well covered with a shallow, gray netting; flesh rich orange-salmon, exceedingly thick, with a small seed cavity. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

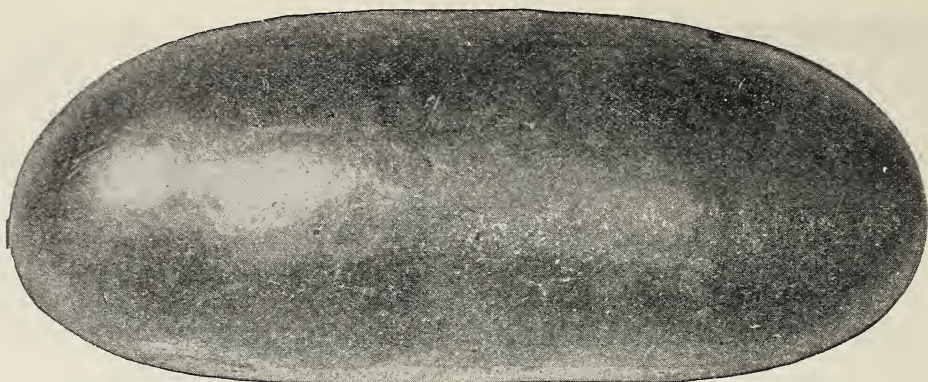
**Rocky Ford.** The fruit is small, almost round, smooth, showing no ribs, and densely covered with a heavy hard gray netting; flesh thick and deep green, showing a faint lining of pink or gold at the center; of the highest quality. An excellent shipper. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.50, postpaid.

★ **Bender Surprise.** A new yellow-fleshed melon, becoming very popular in the East. A splendid keeper and shipper. Melon is large netted, flesh very deep, sweet, and delicious. Oz., 20c; ¼ lb., 75c; 1 lb., \$2.00, postpaid.

**Milwaukee Market.** The skin is light green, fruits nearly round with slight sutures, flesh salmon, wonderfully sweet, with almost no stringiness. Our strain has been improved by careful selection and for a fine home melon and a market variety it has no superior. Oz., 25c; ¼ lb., 75c; 1 lb., \$2.50, postpaid.

★ This variety recommended by the Michigan State College.





★ Kleckley Sweet Watermelon.

## Selected Varieties of Watermelon

**CULTURAL DIRECTIONS.** One ounce to 30 hills, about three pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.

**Cole's Early.** One of the earliest melons; small, seldom more than twelve inches long. Flesh red and sweet; rind thin and brittle. Not a good shipper, but good for home garden and early market. Oz., 10c; ¼ lb., 30c; 1 lb., 90c, postpaid.

**Halbert Honey.** Very similar to Kleckley's Sweet, but is blunt at both ends. For home market and garden it has no rival, but it is not a good shipper. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Kleckley Sweet or Monte Cristo.** One of the sweetest melons on the market. Melons long, averaging eighteen to twenty inches. Rind very thin, dark green in color. Not a good shipper, but all right for early market and home gardens. Fruit tapers slightly toward the stem end. Big crisp, solid, crimson heart. Medium early. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Excel.** Largest of the shipping melons, of good flavor, midseason. Similar in shape to Tom Watson but thicker. Color is dark green with wide bands of darker shade. Very prolific and averages more large melons than any other variety. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Irish Grey.** Wonderful in yield. Will produce more good melons than any other variety. The sparkling red flesh is very sweet and delicious and has no hard, unripe centers and is never stringy. The flesh is firm and will not break when sliced. The size is always large. Shape long. Earlier than Tom Watson. Will keep in good condition long after being picked. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Tom Watson.** Produces melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 40 to 50 pounds, on rich soil. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper. Oz., 10c; ¼ lb., 30c; 1 lb., 90c, postpaid.

**Sweetheart.** A medium early variety growing to a large size; a heavy, round to oblong form with rather thick, tough rind and a good shipper. Color very light green, flesh bright red and seeds black. Oz., 10c; ¼ lb., 30c; 1 lb., 90c, postpaid.

**Peerless or Ice Cream.** An old standby. Medium early, fruit oblong, large size; rind light green, mottled and veined; flesh scarlet, solid to center, sweet, melting and delicious. Not a good shipper. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Citron, Red Seeded.** The old well known red seeded preserving melon. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00.



Southern Giant Curled Mustard.

## Mustard

The leaves are used as a salad or may be boiled like spinach. Sow seed in any good garden soil early in the Spring in rows 1½ to 2 feet apart and when well up thin out the plants so they stand 8 or 10 inches apart. By making several sowings a week the tender leaves may be had throughout the season. One ounce will sow 50 feet of row.

**Southern Giant Curled.** Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the edges. Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

**Fordhook Fancy.** A vigorous growing mild variety, leaves dark green, beautifully

curled and fringed. Fine for salads and garnishing. Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

## Okra or Gumbo

Very wholesome. The pods when young, make fine soup, and are also used in mixed vegetable soups. Plant after the ground is warm and dry in drills 3 feet apart, thinning the young plants to 1 foot apart. Make early and late sowings to secure a supply throughout the season. Easy to grow in any good garden soil.

**White Velvet.** Plants 3½ feet high, pods white, long, smooth, and tender; early and productive. Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



White Velvet Okra.

★ This variety recommended by the Michigan State College.



## Choice Onion Seed

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; about four pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 10-10 fertilizer. Drill in rows about a foot apart. As soon as the weeds appear, weed carefully and give shallow cultivation. Sow as early as possible in Spring.

### The Three Southports

The Southport types of Globe Onions are more extensively grown than any other varieties and because of their fine form, good color and excellent keeping qualities always command better prices in the market. These types are as well adapted to the small garden as they are for field culture.

★ **Southport Yellow Globe.** Bulbs nearly round, but slightly longer than Yellow Globe Danvers. Not quite so early, but much heavier yielder and not flat across the bottom. Color beautiful golden; the best main crop sort. Oz., 15c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.75, postpaid.

★ **Southport Red Globe.** Same shape as the Southport Yellow but color very dark. Better keeper than the Yellow, but not so good a seller. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

★ **Southport White Globe.** Of the true Southport form, with a thin, delicate skin of purest paper whiteness; flesh is very crisp, snowy white in color and exceedingly mild; usually commands the highest price in the market. Oz., 25c;  $\frac{1}{4}$  lb., 80c; 1 lb., \$2.75, postpaid.

★ **Connecticut Yellow Globe Onions.** Onions are round, globe shaped. Not so long as the Southport, but said to be much better keepers. Very few stiff necks, rich yellow color. Will keep well into the Spring months. Seed grown in Connecticut. Price, oz., 20c;  $\frac{1}{4}$  lb., 65c; 1 lb., \$2.25, postpaid.

**Red Wethersfield.** One of the oldest and best known American type, large, rather flat, deep purplish red in color. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**Prizetaker or Mammoth Yellow Spanish.** Very large, nearly round, light straw color, very mild and sweet. Late. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.



★ Southport Yellow Globe.

**Michigan Yellow Globe.** Earlier than Southport, but more flat across the bottom. Oz., 20c;  $\frac{1}{4}$  lb., 65c; 1 lb., \$2.25, postpaid.

**Yellow Globe Danvers.** A very popular dependable variety. Is an exceptional keeper. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**White Portugal or Silverskin.** An early flat, white onion of mild flavor. Used mostly to grow sets. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.

**Ohio Yellow Globe.** The best of the yellow globe varieties. The skin is bright, glossy, orange-yellow, and the flesh is white, and fine grained. The bulbs are remarkably uniform in size and shape, and being firm and hard possess fine keeping and shipping qualities. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## Onion Sets

**Yellow Bottom Sets.** Write for prices.

**White Silverskin Sets.** Write for prices.

**Red Bottom Sets.** Write for prices.

**Egyptian or Perennial Top Sets.** Qt., 15c; bu., \$2.50, not postpaid.

## Parsley

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows about 15 inches apart, and thin to four or five inches apart in the row. Parsley will live through the Winter without protection, and if plants are left, there will be plenty for early Spring use, but will soon go to seed. Will last longer the second year if sown in the Fall.

**Champion Moss Curled.** Has the appearance of finely curled moss; hardy, slow to run to seed. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Triple Curled.** Plant handsome, beautifully curled and rapid grower. Will produce a large crop. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Hamburg Rooted.** Grown for the root which resembles a parsnip in shape and color. Foliage very much like plain parsley. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.



Champion Moss Curled Parsley.

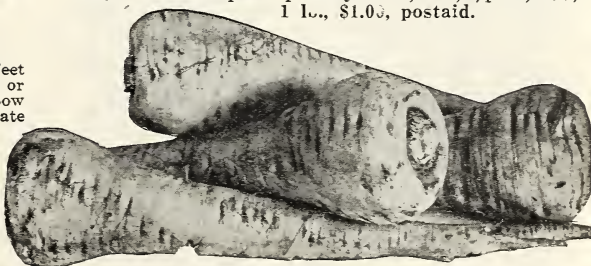
## Parsnips

**CULTURAL DIRECTIONS.** One ounce will sow 100 feet of drill; three to four pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly and thin as for Carrots, as seed does not germinate well unless conditions are just right.

**Hollow Crown.** Thick shoulder. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.

**Hollow Crown.** Long, smooth. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.

**Long Smooth Dutch or Sugar.** Roots very long, slim and much sweeter than the Hollow Crown. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.



Hollow Crown Parsnips.

★ This variety recommended by the Michigan State College.



# Garden Peas

**CULTURAL DIRECTIONS.** One quart will plant 100 feet of drill; about one bushel per acre. Peas do best on rich, sandy loam that has been well manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the Spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

★ **Dark Poddled Sutton's Excelsior.** An excellent extra early, dwarf variety, of highest quality. Height fourteen inches, foliage dark green. Vine stout and healthy. Pods three and one-half inches long, straight, round and square ended, containing six to eight large, dark green peas. Exceedingly productive. Price, not postpaid, qt., 40c; pk., \$2.75; bu., \$10.00.

**Little Gem.** A second early, hardy variety. Prolific, bearing pods on both sides of the stalk, beginning near the ground. Pods medium length, round, and well filled to the end. Height of vine about fifteen inches. Seed green, wrinkled. Qt., 40c; pk., \$2.50; bu., \$9.00, not postpaid.

★ **Little Marvel.** One of the most prolific of the second early sorts. Pods long, three to four inches, well filled with deliciously sweet peas. Vines about 15 inches in height. Qt., 40c; pk., \$2.75; 1 bu., \$10.00, not postpaid.

**Alaska.** A small, smooth blue pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vines about two feet in height, pods small, but well filled. Can nearly all be harvested at one picking. Qt., 40c; pk., \$2.40; bu., \$9.00, not postpaid.

**Dwarf Telephone.** A splendid main crop pea, coming between the Telephone and Stratagem. Of the Stratagem type, but a heavier yielder. Height, two and one-half feet. Foliage very heavy, sturdy and dark green. Pods four and one-half inches long, dark green, broad, straight and pointed, containing nine large, medium dark green peas of the best quality. Price, not postpaid, qt., 40c; pk., \$2.75; bu., \$10.00.

★ **Alderman.** A little later than the Telephone. Vines about four feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Qt., 40c; pk., \$2.40; bu., \$9.00, not postpaid.

★ **World's Record.** A new variety on the order of Gradus, which it resembles in many ways; might well be considered an improvement on that sort,

being slightly earlier, more productive and true to a fixed type. Grows about 2 feet in height, with large, dark green pods nearly 4 inches in length, broad, pointed and always well filled with large sweet peas of splendid quality. An excellent profitable sort for home or market garden. Qt., 40c; pk., \$2.75; 1 bu., \$10.00, not postpaid.

★ **Thomas Laxton.** One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunt ended and well filled with large peas. Peas wrinkled. Qt., 40c; pk., \$2.75; 1 bu., \$10.00, not postpaid.



★ Thomas Laxton Peas.

★ **Improved Laxtonian.** The best of the Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches broad, containing eight large peas of excellent quality. The best second early big-podded sort. Price, qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**American Wonder.** One of the earliest and sweetest wrinkled peas. Vines very dwarf and productive. Pods small, but well filled. The most delicious pea for the home garden. Qt., 40c; pk., \$2.40; 1 bu., \$9.00, not postpaid.

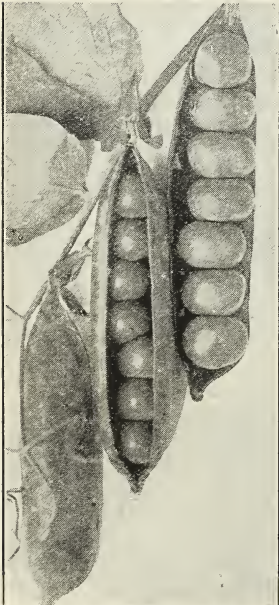
**Nott's Excelsior.** A standard extra early dwarf pea. Height about one foot; foliage medium green, stout and heavy, pods light green, 3 inches long, round, straight and blunt ended, containing 6 light green peas of high quality; productive. Qt., 40c; pk., \$2.75; 1 bu., \$10.00, not postpaid.

**Horsford's Market Garden.** A very productive main crop sort. Height three feet. Vines and foliage dark green, pods medium green, 3 inches long, almost round and blunt ended; well filled with 6 or 7 light green peas of good quality. Qt., 40c; pk., \$2.40; 1 bu., \$9.00, not postpaid.

**Champion of England.** Vines four to five feet in height, productive. Pods two to three inches long, broad and well filled. Peas medium size, of unsurpassed sweetness. Qt., 40c; pk., \$2.40; bu., \$9.00, not postpaid.

**Dwarf Gray Sugar.** A dwarf edible pod variety. Vines about two feet high. Cook pods like string beans. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.

**Melting Sugar, or Edible Pod.** A tall variety, bearing large, flat, brittle pods. These are sweet and are cut or broken and cooked like string beans. Is a delicious vegetable and should be better known and more generally used. Qt., 50c; pk., \$3.00; 1 bu., \$11.00, not postpaid.



Dwarf Telephone Peas.





★ Chinese Giant Pepper.

## Peppers

**CULTURAL DIRECTIONS.** One ounce will produce about 2,000 plants; about 7,000 plants for an acre. Sow seed in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about three feet apart and eighteen inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

★ **Harris Earliest.** The earliest large pepper grown. Plant dwarf, compact in habit of growth. Most prolific. Peppers bell-shaped, about 4 inches long. They produce an enormous crop of fruits, which are perfectly mild and sweet. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

★ **Early Giant (Harris).** The earliest and most prolific of all large peppers. Slightly later than Harris' Earliest, is of dwarf, compact growth, bearing as many as 12 pendent fruits on a single plant. Fruit, scarlet, measuring 5 inches long by 3½ inches in diameter; 3 lobed, mild and sweet. A profitable pepper for the market. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$10.00, postpaid.

★ **Chinese Giant.** Mammoth fruits, twelve to fifteen inches in circumference. Flesh thick, tender, mild and sweet. Oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00, postpaid.

★ **Bull Nose or Large Bell.** Large bell-shaped, thick-fleshed fruit. Good for Mango pickles. Oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

★ **Long Red Cayenne.** Pendent fruits about five inches long and three-fourths inch in diameter at the base, often curved and twisted; bright red, hot and pungent. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

★ **Ruby King.** Large, four to six inches long; mild and sweet. Qt., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

★ **World Beater.** The most prolific large pepper. Fruit very large, about five inches long. Flesh thick, mild and sweet. Pepper tapering and of a bright ruby red color when ripe and very attractive. Price, postpaid, oz., 50c; ¼ lb., \$1.75; 1 lb., \$6.00.

★ **Red Chili.** Small, red, cone-shaped. Very hot and prolific. Used for seasoning. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.



Early Giant Peppers.

★ **Pimento.** A rather late, very thick fleshed, heart-shaped, smooth, mild crimson variety, much used for salads. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00 postpaid.

★ **Sweet Golden Dawn.** A handsome, sweet, mild, yellow variety; fruit pendent, 1½ inches long and about the same in diameter. Oz., 40c; ¼ lb., \$1.25; 1 lb., \$4.00, postpaid.

## Pumpkins

**CULTURAL DIRECTIONS.** One ounce of seed for 20 hills. About 3 pounds per acre. Usually grown in cornfields, but can be grown as a separate crop. Seed should be planted in hills eight to ten feet apart each way, after soil gets warm. Cultivate often until vines begin to run. Cut pumpkins after leaves die, leaving three to four inches of stem attached to fruit. Store in a dry place, and do not bruise.

★ **Connecticut Field.** Generally used for planting in corn for stock feeding; also makes good pies. Oz., 10c; ¼ lb., 20c; 1 lb., 75c, postpaid.

★ **King of the Mammoths.** The giant among pumpkins. Often grows two feet or more in diameter. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Sugar Pie.** Fruit small, round, flattened at the ends, and slightly ribbed. Skin and flesh deep orange-yellow. Flesh very thick and of high quality. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Japanese Pie.** A large crook-necked sort. Skin green, striped yellow. Flesh yellow and of fine quality. Oz., 10c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

★ **Golden Oblong.** One of the best pie and canning Pumpkins. Oblong in shape, averaging about twenty by ten inches. Skin golden yellow and very tough, making an excellent keeper. Flesh very thick, yellow and of fine quality and never stringy. Heavy yielder and fruit solid and heavy. Oz., 10c; ¼ lb., 25c; 1 lb., 75c, postpaid.



Sweet or Sugar Pie Pumpkin.

★ This variety recommended by the Michigan State College.



# Radishes

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; about five pounds to the acre. Sow in rows about 12 inches apart in rich, sandy loam. Use no fresh manure, as the radishes will not grow smooth and will be wormy. Later sowings can be made at intervals during the summer. Seeds of Winter radishes should be sown in July or August, and radishes can be kept during the Winter if covered with sand and kept in a cool cellar.

## ★ Grand Rapids Forcing Radish

The best greenhouse variety and the earliest. Has a very tender skin and will not stand heavy forcing. Don't let it dry off in the bench and then water heavily or it will split. When properly grown it is the most handsome and best forcing sort with the shortest top and the radishes are ready to pull before you realize it on this account. Price, postpaid, oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00.

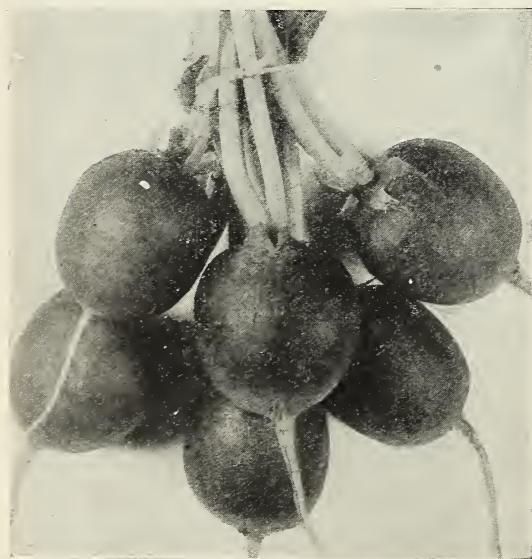


Grand Rapids Forcing Radish.

★ **Vick's Scarlet Globe.** We have an exceptionally fine stock of this grand variety, which has been tested by having crops grown both in greenhouses and outdoors. Our new stock will not be sold until it is tested. It is one of the earliest of the forcing radishes, and does equally as well for outdoor culture. Roots are globe-shape, of fair size, not apt to be pithy, small tops, crisp and tender. Color a bright scarlet. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.

**French Breakfast.** Of oblong shape, small, quick growing, color rose-scarlet, with small white tip. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.

**Scarlet Turnip, White Tipped.** Round, deep scarlet, shading to a white tip at the bottom. Very early. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.



★ Vick's Scarlet Globe.



★ Grand Rapids Forcing Radish.

★ **Icicle.** One of the earliest long varieties, white throughout. Very crisp and tender. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Long Scarlet Short Top.** Roots are smooth and tender, with very short tops. Color bright carmine red. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Half Long Deep Scarlet.** A half long, of a beautiful deep scarlet color. Does not become pithy as soon as long scarlet varieties. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Long Black Spanish.** One of the latest and hardiest varieties for Winter use; roots eight to nine inches long, two to three inches in diameter, and nearly black in color. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Round Black Spanish.** Round, three to four inches in diameter. Skin almost black; flesh white, crisp and pungent. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Crimson Giant.** Larger than any other extra early variety but does not become pithy. Crimson-carmine, turnip shaped, flesh firm, crisp and tender. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Cincinnati Market.** Grows straight and smooth, 6 to 7 inches long. The tops are small, the skin a beautiful scarlet, very thin flesh, crisp and brittle. Wonderful flavor. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**Chinese Rose Winter.** Roots four or five inches long, blunt at both ends, about two inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best Winter sorts. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

★ **Cooper's Sparkler.** White tip, quite similar to Scarlet Turnip White Tip as to size and time of maturity, only the Sparkler is more round or ball-shaped, and the white extends farther up the radish, making a more attractive bulb. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., 90c, postpaid.

**Chartier, or Shepherd.** Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

**White Globe.** Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 90c, postpaid.

★ This variety recommended by the Michigan State College.



## Rhubarb

**CULTURAL DIRECTIONS.** One ounce will produce 100 plants. The seed should be sown in the Spring in rows about eighteen inches apart and transplanted the next Spring to permanent beds. Roots should be planted three or four feet apart, and well manured, either with well-rotted stable manure or Pulverized Hen Manure. Give thorough cultivation.

**Victoria.** One of the best market sorts; stalks a beautiful red. Oz., 20c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

## Rutabagas

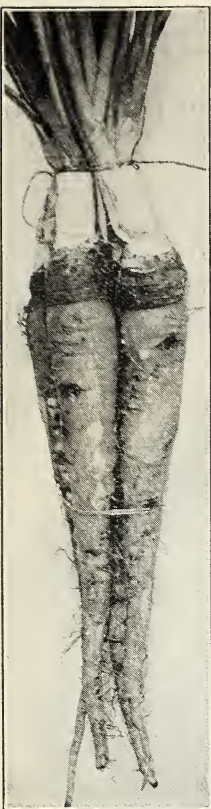
**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; one pound to the acre, if sown in drill rows. Spring sowing should be done very early, so that the 'bagas may get their growth before hot weather, or they will be pithy and bitter. For main crop sow in July or August.

**American Purple Top.** A hardy, productive variety, with small neck. Roots are large, globe-shaped, with small tap-root. Color bright yellow with purple top. Flesh solid, tender and sweet. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

**Long Island, Improved.** Grows large, top-shaped, purple top, flesh yellow. Used for stock feeding or table use where a large Rutabaga is wanted. Oz., 10c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c, postpaid.

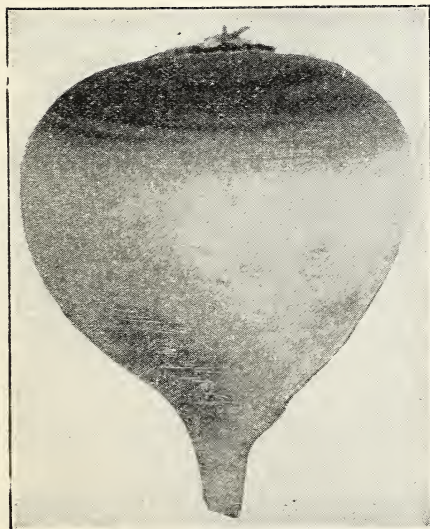
## Salsify or Vegetable Oyster

**CULTURAL DIRECTIONS.** One ounce to 75 feet of drill; five or six pounds to the acre. Sow the seed early in the Spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. The roots will be ready for use in October, when a supply should be taken up and stored like carrots for Winter use. Like parsnips, they may be left in the ground all Winter and dug as soon as the ground is thawed.



Salsify.

**Mammoth Sandwich Island.** Roots large and uniform; pure white. Oz., 25c;  $\frac{1}{4}$  lb., 80c; 1 lb., \$2.50, postpaid.



American Purple Top Rutabaga.



Victoria Rhubarb.



An Ideal Home Garden.



# Spinach

## Pure Seed, and Improved Varieties

**CULTURAL DIRECTIONS.** One ounce to 100 feet of drill; eight to ten pounds per acre. Sow thinly in drills, twelve to fifteen inches apart and about half an inch deep. Thin plants to four inches apart in the row. Sow early for Spring crop, in August for Fall use; and if sown from the middle to last of September, and protected during the Winter with a light covering of straw, it will be ready for use very early in the Spring.



Virginia Savoy Blight-Resistant Spinach.

**Virginia Savoy Blight-Resistant Spinach.** Was originated by the Virginia Truck Experiment Station. It is the result of years of scientific work by the Experiment Station, and has proved a great success the past three years. It is a decided improvement over **Bloodsdale** or **Norfolk Savoy**, as its blight proof qualities and correct habit of growth make it more valuable to the grower than any other variety. Virginia Savoy is characterized by the large leaves and general Flanders type of growth. The low-growing, wide-spreading habit makes it most desirable for Winter Spinach. Plants of this type attain a very large size in late Fall and carry well into early Spring. A single plant often weighs more than a pound. Oz., 10c; ¼ lb., 20c; 1 lb., 50c, postpaid.

**Round Summer Thick Leaved.** An old standard. Grand Rapids growers use this variety very largely for main crop for Spring, Summer and Fall. Oz., 10c; ¼ lb., 15c; 1 lb., 35c, postpaid.

★ **Victoria.** Makes a flat rosette with very short stems. The leaves are large, thick and wrinkled, blunt or rounded, and dark green in color. Stands hot weather well; slow to go to seed. Oz., 10c; ¼ lb., 15c; 1 lb., 35c, postpaid.

**Long Standing.** Oz., 10c; ¼ lb., 15c; 1 lb., 35c, postpaid.



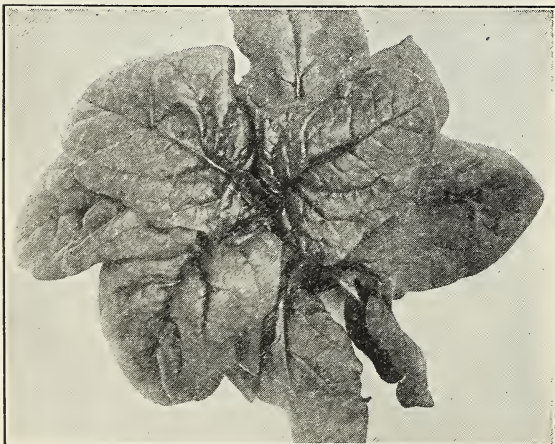
★ King of Denmark Spinach.

★ **King of Denmark Spinach.** A standard variety for market gardeners, for Spring planting. It will stand longer than any other variety before going to seed. Leaves large, rounded, and somewhat blistered. Color very deep green. Heavy yielder and excellent quality. Oz., 10c; ¼ lb., 20c; 1 lb., 50c, postpaid.

**New Zealand.** Entirely distinct from the true Spanish; plant tall and spreading, leaves medium green, rather small and pointed, grows well in hot weather and under adverse conditions. Oz., 15c; ¼ lb., 25c; 1 lb., 75c, postpaid.

**Princess Juliana.** A new and better variety for the market gardener. It is said to be the most thoroughbred type of long standing spinach ever introduced. In form it is a dense, compact rosette with very short petioles; the leaves are large and rounded, thick in texture, very much blistered and crumpled and of an intense very dark green color; will hold up well in shipping and is slow to run to seed. Oz., 10c; ¼ lb., 20c; 1 lb., 50c, postpaid.

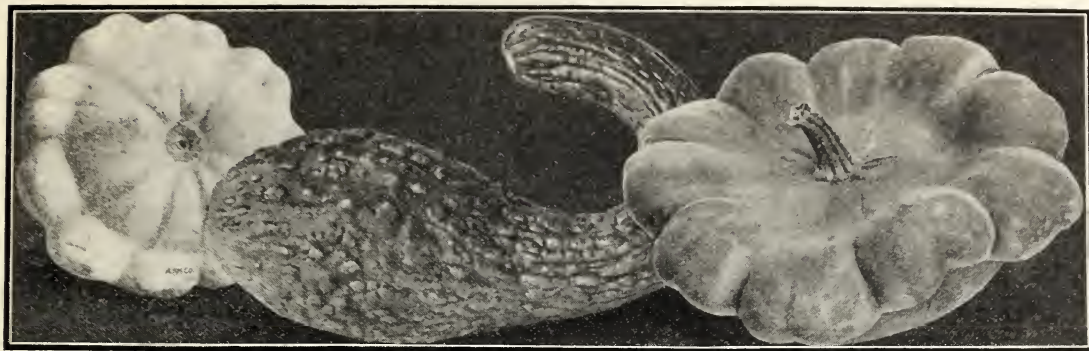
**Treat Your Seed With Semesan  
and Raise All the Plants**



★ Victoria Spinach.

★ This variety recommended by the Michigan State College.





Early White Bush Scallop.

Giant Summer Crookneck.

Early Yellow Bush Scallop.

## Squash

**CULTURAL DIRECTIONS.** For Summer squash, one ounce to 25 hills; two to three pounds per acre. For Winter squash, one ounce to ten hills; about three pounds per acre. After danger of frost is past plant eight to ten seeds to the hill for Summer sorts, about four feet apart, the last of May, and Winter varieties in hills about eight feet apart, from the middle of June to July first. Do not bruise or break the stems of Winter squash when gathering. Store in a cool, dry place.

**Early White Bush Scallop.** Very early Summer Squash, also known as Patty Pan. Oz., 15c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.25, postpaid.

**Early Yellow Bush Scallop.** A true bush. Earlier and smaller than the above. Oz., 15c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.25, postpaid.

**Giant Summer Crookneck.** Largest and one of the earliest Summer varieties. Fruit large, very warty; color deep orange. Oz., 15c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.25, postpaid.

**Golden Hubbard.** Similar to the old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange red in color; flesh deep orange, of fine quality; good keeper. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

**Improved Hubbard.** The standard Winter Squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine-grained, thick and dry. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

**Chicago Warted Hubbard.** Similar in quality and form to the Hubbard, but fruit larger and a little later. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

**Table Queen.** A Squash fit for a Queen. Cut in half and baked for twenty minutes, it is delicious. Wonderful producer. The fruits are from six to eight inches long and four to six inches in diameter. The shell is hard and smooth. Color dark green with sometimes a blotch of red at pointed end. Will keep as long as the Hubbard. Oz., 15c;  $\frac{1}{4}$  lb., 50c; 1 lb., \$1.50, postpaid.

**Blue Hubbard.** A new type of Hubbard Squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.



Table Queen Squash.

**Boston Marrow.** Fall and Winter variety, oval, color when ripe bright orange, fine grained and excellent flavor. Oz., 15c;  $\frac{1}{4}$  lb., 25c; 1 lb., \$1.25, postpaid.

**Delicious.** A Fall and Winter variety, medium size, top-shaped, dark green, flesh orange, very deep and delicious. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

**Delicata.** Orange-yellow mottled, with spots and stripes of dark green. Oz., 20c;  $\frac{1}{4}$  lb., 45c; 1 lb., \$1.50, postpaid.

**Cocozella di Napoli** (Italian Vegetable Marrow). A bush summer variety, oblong, large. Dark green marbled with yellow and dark green stripes. A vegetable delicacy superior to eggplant. Oz., 15c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.50, postpaid.

Improved  
Hubbard  
Squash.



# Select Tomato Seed



★ Grand Rapids Forcing Tomatoes.  
This plant produced 19 lbs. of marketable fruit.

**CULTURAL DIRECTIONS.** One ounce will produce about 3,000 plants; about 5,000 plants to the acre. Tomatoes do best on warm, sandy, rich soil, and make a rapid and unchecked growth in the early part of the season. For main crop, sow seed in greenhouses or hotbeds from the middle of March to the first of April. Transplant to the open field from last of May to June first.

## ★ Grand Rapids Forcing

The Grand Rapids Forcing is as great an acquisition to the line of forcing vegetables as was the Grand Rapids Forcing Lettuce. The intense sexual vigor of the plant causes a great production of pollen, and insures an immense setting of fruit. It is probably the only tomato that is self-fertilizing. Plant is a vigorous, robust grower, and should be trimmed to about six feet in height. The fruit is a good red color, fair size, firm and meaty. Skin is tough and it will stand shipping for long distances. Under favorable growing conditions each plant should produce eight pounds of marketable fruit. Oz., \$1.50; ¼ lb., \$5.00; ½ lb., \$8.00, postpaid.

**GRAND RAPIDS FORCING, Select Growers Strain.** This strain is the result of years of careful plant selection and breeding by one of our growers. He has developed a superior tomato, larger in size and better in quality as well as flavor. This seed was taken from greenhouse grown tomatoes. Oz., \$2.00; ¼ lb., \$7.50; 1 lb., \$25.00, postpaid.

**Ideal Forcing.** A new forcing variety originated by Mr. John Nellis of Grand Rapids, Mich. Mr. Eugene Davis and Prof. Waide, now of Ohio, selected the original parent plant of the Ideal Tomato. It is the result of crossing the Bonny Best with the Comet and has the heavy yielding quality and tough skin of the Comet and the high color of the Bonny Best. Mr. Nellis has selected and re-selected the plants until it has arrived at a high state of purity and breeds absolutely true to type. The plant does not grow as tall as the Grand Rapids Forcing but will yield as many pounds per plant. It has no green, unripe core, is dark red in color, not an acid fruit but of excellent quality, and is a larger Tomato and a splendid shipper. During the past year ideal results have been obtained in the greenhouse. Oz., \$3.00; ¼ lb., \$10.00, postpaid.

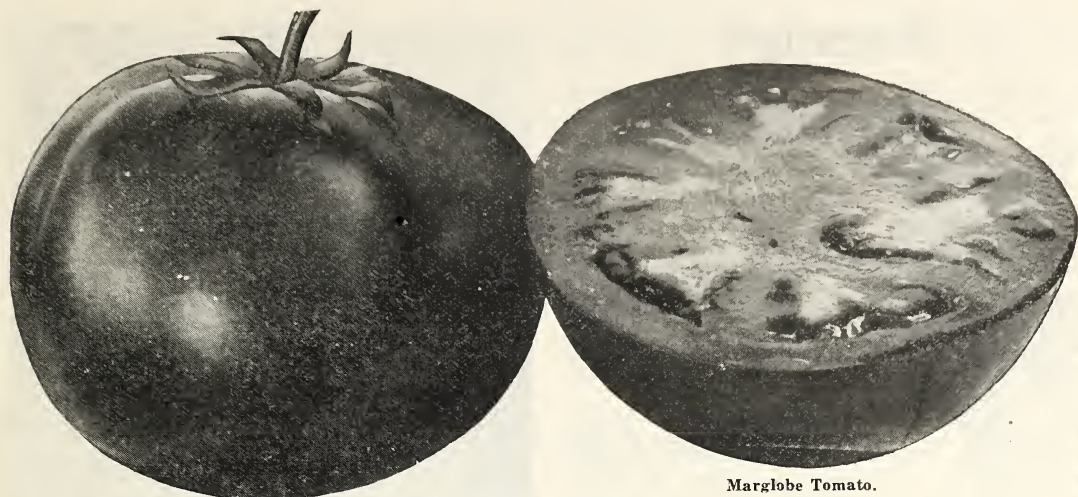
★ **Bonny Best.** As early as Chalk's Jewel. Fruit smooth, solid and uniform. Produced in clusters in center of plant. One of the most productive; color bright red; good shipper. Oz., 30c; ¼ lb., 90c; 1 lb., \$3.00, postpaid.



★ Bonny Best Tomatoes.

★ This variety recommended by the Michigan State College.





Marglobe Tomato.

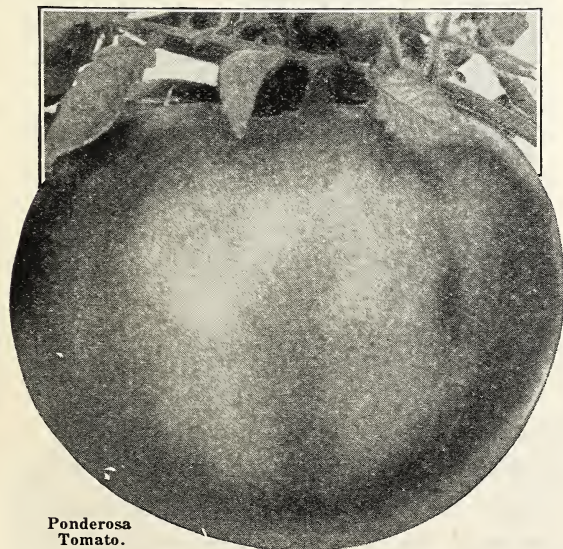
## TOMATOES--Continued

- ★ **John Baer.** An early, productive, red tomato, on the order of the Chalk's Jewel. Splendid producer. Oz., 30c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00, postpaid.
- Dwarf Stone.** The best of the dwarf tomatoes. Fruits large, smooth, very solid, of a deep scarlet color. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.

**Marglobe****The Wilt and Nailhead Rust-Resistant Sort.**

The Marglobe was produced by crossing the Livingston Globe with one or more other varieties. It is a vigorous grower whether in greenhouse or field. A bright red in color, of large size, almost round, and very productive. It will take the place of many other varieties in greenhouses and sections of the country where wilt prevails. It will pay to try the Marglobe, even if you are not bothered with Tomato disease. It is very promising.

The seed of Marglobe which we are offering was grown from planting stock supplied by Prof. F. J. Pritchard of the U. S. Dept. of Agriculture. The quantity is quite limited. Oz., 65c;  $\frac{1}{4}$  lb., \$2.25; 1 lb., \$8.00, postpaid.



Ponderosa Tomato.

- Earliana.** The most productive, first early red tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet. Oz., 30c;  $\frac{1}{4}$  lb., \$1.15; 1 lb., \$4.00, postpaid.
- Ponderosa.** A very large, purple-fruited tomato; solid, with but few seeds, and not acid. Fine for slicing. Oz., 40c;  $\frac{1}{4}$  lb., \$1.30; 1 lb., \$5.00, postpaid.

★ **John Baer Tomatoes.**

- Chalk's Early Jewel.** An exceptionally fine early variety. About ten days later than the Earliana. Fruit round, smooth and solid. Color crimson. Extremely productive. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.
- Red Rock.** A dependable, large, second early variety. A favorite canning sort. Oz., 30c;  $\frac{1}{4}$  lb., \$1.00; 1 lb., \$3.50, postpaid.
- Wayahead.** A potato-leaved Earliana. Earlier than the Earliana. Smooth red fruit and very prolific; has the heavy yielding qualities of the Earliana and fruit much better. Oz., 60c;  $\frac{1}{4}$  lb., \$2.00; 1 lb., \$6.00, postpaid.
- Landreth.** An early and exceedingly choice variety. Very productive, fruit large and solid. Oz., 30c;  $\frac{1}{4}$  lb., 90c; 1 lb., \$3.00, postpaid.
- Matchless.** A fine, smooth, main crop tomato of rich cardinal-red color, with solid flesh of finest quality. Oz., 30c;  $\frac{1}{4}$  lb., \$1.15; 1 lb., \$4.00, postpaid.
- Red Head.** A large globe-shape, bright scarlet tomato. Fruit is very smooth, meaty, runs quite uniform in size, very productive. Oz., 50c;  $\frac{1}{4}$  lb., \$1.50; 1 lb., \$5.00, postpaid.
- June Pink.** Similar in all respects to Earliana, differing only in having purple fruit; the best extra early purple variety. Oz., 40c;  $\frac{1}{4}$  lb., \$1.30; 1 lb., \$5.00, postpaid.



## Turnips

**CULTURAL DIRECTIONS.** One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.

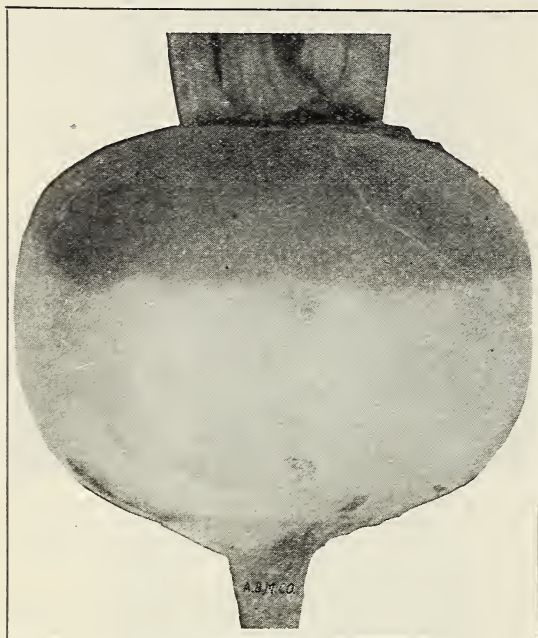
**Extra Early White Milan.** The earliest bulbs, small, clear white, and flat. One of the best for early bunching. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**White Egg.** An early egg-shaped variety. Roots smooth, clear white. One of the best for market. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 70c, postpaid.

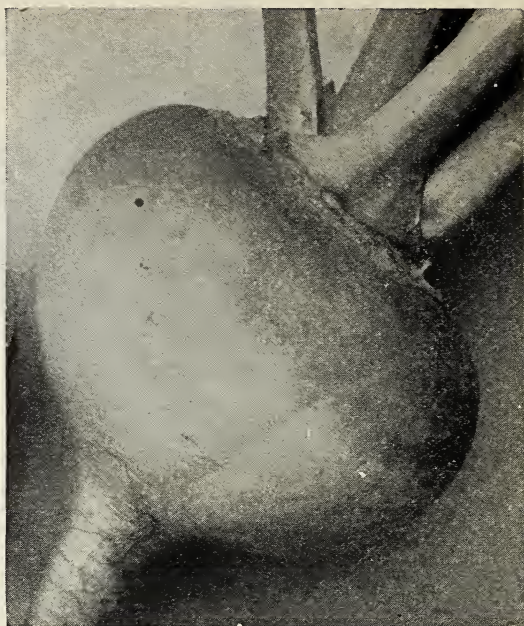
**Purple Top White Globe.** Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive turnip and best seller. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 70c, postpaid.

**Purple Top Strap Leaved.** A very early, flat variety, medium size; purple or red above ground and white below. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.

**Cow Horn.** Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.



Purple Top White Globe Turnip.



Purple Top Strap-Leaved Turnip.

**Robertson's Golden Ball.** Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 75c, postpaid.

**Yellow Aberdeen.** A late, medium sized, long keeping variety, roots round, yellow with a purple top, flesh tender. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 60c, postpaid.

**Purple Top Milan.** Extremely early and of splendid quality, medium size, flat and white, with bright purple top; strap leaved. Oz., 10c;  $\frac{1}{4}$  lb., 30c; 1 lb., \$1.00, postpaid.

**Yellow Globe.** A round, smooth, light yellow variety of medium size and good quality. Oz., 10c;  $\frac{1}{4}$  lb., 20c; 1 lb., 75c, postpaid.

## Tobacco

**Connecticut Seed Leaf.** A hardy cigar variety for home use. Oz., 40c;  $\frac{1}{4}$  lb., \$1.25; 1 lb., \$4.00, postpaid.

**Fine Havana.** Finest strain of imported seed. Oz., 60c;  $\frac{1}{4}$  lb., \$1.75; 1 lb., \$6.00, postpaid.

## Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.

**Anise.** Used for flavoring. Oz., 15c, postpaid.

**Caraway.** Seeds used for flavoring. Oz., 15c, postpaid.

**Dill.** Used for flavoring pickles. Oz., 15c, postpaid.

**Lavender.** Leaves fragrant. Oz., 20c, postpaid.

**Sweet Marjoram.** Used for seasoning. Oz., 20c, postpaid.

**Fennel, Sweet.** The leaves boiled are used in fish sauces and are beautiful for garnishing. The seeds are used for flavoring. Pkt., 10c; oz., 25c, postpaid.

**Sage.** Very aromatic. Oz., 40c, postpaid.

**Summer Savory.** Leaves used for flavoring soups. Oz., 20c, postpaid.

**Thyme.** Used for seasoning. Oz., 40c, postpaid.

**Rosemary.** The leaves are used for seasoning. Pkt., 10c;  $\frac{1}{2}$  oz., 35c, postpaid.

**Rue.** For medical purposes; good for roup in fowls. Pkt., 10c; oz., 60c, postpaid.



# Grand Rapids Growers Quality Vegetable Plants



Onion Plants.

For those who desire an early crop, either for table or for local marketing, these plants will prove most desirable, and the fact that they are inexpensive and call for minimum labor and trouble in producing the crop has created an ever-increasing demand for them. They may be set out at the same time you would plant sets or cabbage plants. Plant in rows about 15 inches apart and 3 to 4 inches in the row.

For those who do not have the facilities or do not care to grow them, we carry a complete line of well-grown plants of the best varieties. These plants are double rooted, sturdy, and of excellent quality. Greenhouse grown.

## CABBAGE:

Early Jersey Wakefield.  
Copenhagen Early Market.  
Danish Ballhead.

Prepaid, doz., 25c; not prepaid, 100, \$1.25.

## CAULIFLOWER:

Snowball. Doz., 30c, postpaid; 100, \$2.00, not postpaid.

## TOMATO:

Dwarf Stone.  
Bonny Best.  
Chalk's Jewel.  
Red Head.

Doz., 20c, postpaid; 100, \$1.25, not postpaid.

## PEPPERS:

Harris' Earliest.  
Bull Nose.  
Ruby King.

Doz., 20c, postpaid; 100, \$2.00, not postpaid.

## Texas Outdoor Grown Onion Plants



Cabbage Plant.

**Yellow Bermuda.** The most popular of all the Bermuda varieties. It is the standard variety with the large commercial Bermuda onion growers. It is a light straw-colored onion; makes the finest for pulling green or as matured onions.

**Crystal White Wax.** Unquestionably the most attractive onion in the world. A pure white Bermuda onion with a most beautiful waxy appearance which makes it sell on sight in all markets.

Price, 500, \$1.25; 1000, \$2.25, postpaid.

# Grand Rapids Growers Quality Flower Plants

These plants are double-rooted, grown in flats. We pack them well, letting some of the dirt adhere to the roots so that they will reach you in good condition.

All plants should be unpacked immediately after arrival, the roots placed in water for a few minutes. If you cannot set them out in their permanent locations, they should be separated and heeled in the soil in some sheltered place in the garden.

**Aster.** Queen of the Market and Crego.

**Petunia.**

**Salvia.**

**Zinnia.**

**Snapdragon.**

All of the above flower plants per dozen, 30c, postpaid. For larger quantities, write for prices.





# Flower Seed Department

For the 1928 season we offer you several selections of flower seeds that are new with us. We have enlarged our line quite extensively to meet the ever increasing demand. We have every confidence that our seeds will give you entire satisfaction. You may be familiar with some of these, but if not, the beauty of your garden will be increased by seeding some of the others and a surprise will be in store for you.

**Annuals** are those which bloom and die the same year; grown from seed exclusively.

**Biennials** bloom and die the second year from the seeding time.

**Perennials** grow the plant the first year but do not flower until the second year and then bloom every year.

The letter (A) following variety indicates Annuals; (B) the Biennials; (P) the Perennials.

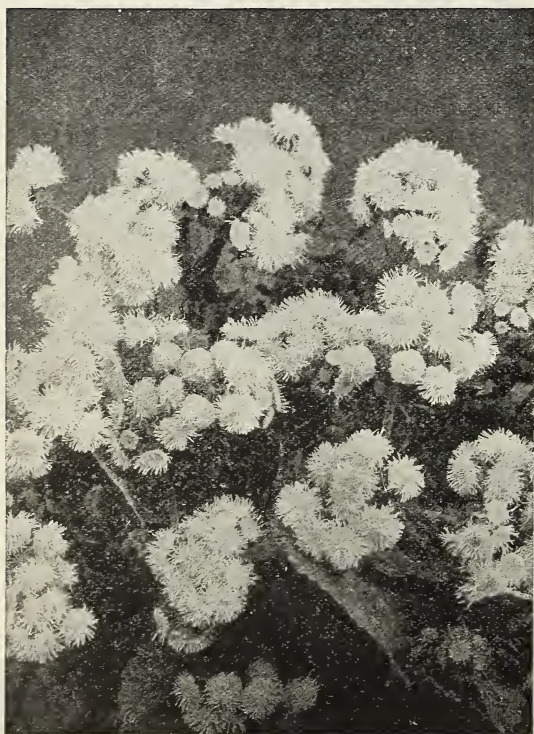
## Ageratum (A)

### (FLOSSFLOWER)

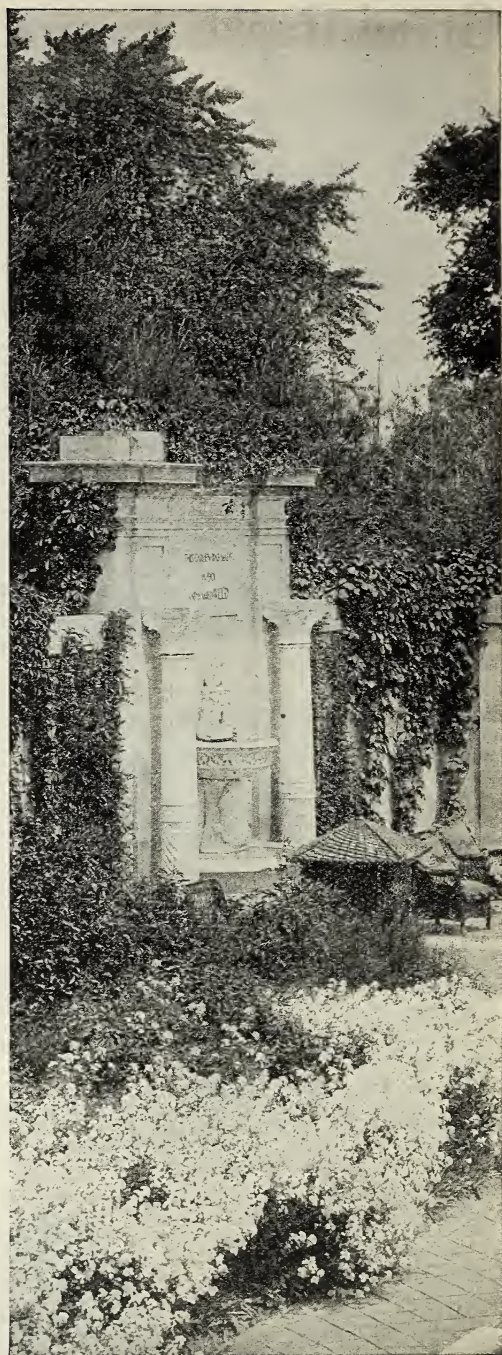
One of the best Summer blooming plants. They are rapid growers, early and constant bloomers.

**Mexicanum Tall.** 18 in. Beautiful soft lavender-blue, of free branching habit.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**Imperial Dwarf Blue.** 6 in. A charming variety of fine, compact growth, covered with heads of feathery flowers of a deep lavender color.  $\frac{1}{4}$  oz., 20c; pkt., 10c.



Ageratum—Floss Flower.



Border of Sweet Alyssum.

## Alyssum

### (SWEET ALYSSUM)

Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

**Little Gem (A).** Erect, white.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**Saxatile Compactum (P).** Yellow.  $\frac{1}{4}$  oz., 25c; pkt., 10c.





Aquilegia—Columbine.

### Aquilegia (P) (COLUMBINE)

This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June.

Single Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

Double Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

### Antirrhinum (A) (SNAPDRAGON)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant and are produced on immense long spikes; which render them extremely well adapted for cut flowers.

Tall Mixed.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

Dwarf Mixed.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

### Asters (A)

**Giant Crego.** The flowers are of immense size, usually measuring from four to five inches in diameter, and borne on stems twelve inches or more in length. Mixed, all colors. Oz., \$1.50; pkt., 10c.

**Giant Comet.** This giant class is an improvement on the old and inferior Comet Class, not only in bearing much larger flowers, but the petals are longer and broader. Mixed, all colors. Oz., 1.00; pkt., 10c.

**Queen of the Market.** The best early aster, usually in full bloom two weeks before most other sorts begin to blossom. Of graceful spreading habit. Mixed, all colors. Oz., \$1.00; pkt., 10c.

**BACHELOR'S BUTTONS.** See Centaurea.



Queen of the Market Asters.

### Balsam (A) (LADY SLIPPER)

**Double Camellia Flowered Mixed.** An old and favorite garden flower, producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion.  $1\frac{1}{2}$  to 2 ft.  $\frac{1}{4}$  oz., 25c; pkt., 10c.



Antirrhinum—Snapdragon.



### **Bellis Perennis (P)** (DOUBLE DAISY)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

BLACK-EYED SUSAN. See Thunbergia.

BLANKET FLOWER. See Gaillardia.

### **Boltonia Asteroides (P)**

Ideal for a hardy border. Large white flowers, heads like single asters, blooming freely from July through September. Seeds grow easily.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

BUTTERFLY FLOWER. See Schizanthus.

### **Calendula (A)** (POT MARIGOLD)

Orange King. The outer petals are slightly imbricated, while those in the center are curved like those of the peony. Color glowing orange. Oz., 30c; pkt., 10c.

The Ball. It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite on the Chicago cut flower market. Oz., \$2.00; pkt., 10c.

CALIFORNIA POPPY. See Eschscholtzia.

### **Calliopsis (A)** (TICKSEED)

Very graceful border plants, supplying throughout Summer an abundance of elegant, showy flowers which are greatly prized for bouquets and vases. Will thrive anywhere. 6 in. to 2 ft. Double mixed, all colors.  $\frac{1}{4}$  oz., 20c; pkt., 10c.



Calliopsis.

### **Campanula (B)**

#### (CANTERBURY BELLS)

This old-fashioned flower is a favorite with all, stately and showy and of the easiest growth. For best results seed should be sown every year.

Single Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

Double Mixed.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

Calycanthema (Cup and Saucer). 2 ft. June to August. Mixed colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

### **Candytuft (A)**

This is one of the most prized garden annuals. Easily grown from seed and does not need transplanting. Fine for cut flowers. Mixed. Oz., 25c; pkt., 10c.

### **Cardinal Climber (A)**

This is a very attractive, strong and rapid grower, attaining a height of 25 feet, with beautiful fern-like lacinated foliage and literally covered with a blaze of fiery cardinal-red flowers from mid-summer to frost. Pkt., 10c.

### **Carnations (A)**

Always in demand and not hard to grow, being hardy and free flowering. It is one of the most valuable of Summer flowers.

Marguerite. Double Mixed.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

CASTOR BEAN. See Ricinus.

### **Celosia (A)**

#### (COXCOMB)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or Summer flower beds. Tall Coxcomb, Mixed. 18 to 24 inch.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

Dwarf Cristata, Mixed.  $\frac{1}{4}$  oz., 40c; pkt., 10c.



Campanula—Canterbury Bells.





Centaurea.

**Celosia—Con.****PLUMOSA or PLUMED VARIETIES**

These stately plants are considered among the most ornamental, and should not be omitted in any garden. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage. 2½ to 3 ft. Mixed, all colors. ¼ oz., 25c; pkt., 10c.

**Chinese Woolflower (Celosia Childsi).** Plants grow 2 to 3 ft. high, the bloom starting early with a central head, round and globular, which often reaches the immense size of 2 ft. in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. ¼ oz., 50c; pkt., 10c.



Early Flowering Mammoth Cosmos.

**Centaurea (A)**

A very popular annual that will always charm by its simple beauty.

**Cyanus (Bachelor's Buttons).** ¼ oz., 20c; pkt., 10c.

**Imperialis (Sweet Sultan).** ¼ oz., 25c; pkt., 10c.

**Coleus (A)****(FOLIAGE PLANTS)**

Bedding plants, growing about 1 foot high. Their foliage is highly ornamental. Easy to raise from seed. Sow seed indoors. Choice Mixed. Pkt., 10c.

**COLUMBINE.** See Aquilegia.



Coreopsis.

**Convolvulus (A)****(MORNING GLORY)**

Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

**Common, Mixed.** Oz., 15c; pkt., 10c.

**Japanese, Mixed.** Oz., 25c; pkt., 10c.

**Coreopsis (P)**

This is one of the finest of hardy plants, with large, showy, bright yellow flowers produced in the greatest abundance from June till frost. As cut flowers they stand near the head among hardy plants. Oz., 30c; pkt., 10c.





Delphinium—Larkspur.

**Cosmos (A)**

This is one of the most showy and useful of our garden plants. Plants are very bushy, a compact mass. Flowers borne on long delicate stems and are similar to single dahlias. Foliage very finely cut. 4 to 6 ft.

Early Flowering Mammoth, Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

Giant Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

COXCOMB. See Celosia.

**Cypress Vine (A)**

For trailing upon a light ornamental trellis the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and finely cut foliage. Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

Daisy. Chrysanthemum Leucanthemum. See Shasta Daisy.

DOUBLE DAISY. See Bellis Perennis.

**Delphinium (P)**  
(LARKSPUR)

Increasingly this fine flower is coming into favor. It is hardy, grows easily, has a long period of bloom and gives to the garden one of its stateliest plants, which bear tall spikes of exquisite blue flowers.

Formosum. 3 ft. Dark blue.  $\frac{1}{4}$  oz., \$1.00; pkt., 10c.  
Perennial Mixed.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

**Dianthus (A)**  
(PINKS)

Single. The flowers are extraordinarily large, of handsome form, and embrace the most beautiful colors, ranging from white to the most delicate pink and deep crimson.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

Double. Selection of the best double Pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**Digitalis (B)**  
(FOXGLOVE)

Bearing long spikes of beautifully colored flowers; fine for planting in hardy borders or among shrubbery. Mixed. Oz., \$1.00; pkt., 10c.

**Eschscholtzia (A)**  
(CALIFORNIA POPPY)

Especially valuable for growing in flower beds and masses. Sow where plants are to bloom. Bright, showy flowers and feathered foliage. Good for cut flowers.

California Golden. Large yellow flowers. Oz., 30c; pkt., 10c.

EVERLASTING FLOWERS. See Helichrysum and Globe Amaranth.

FLOSSFLOWER. See Ageratum.

FORGET-ME-NOT. See Myosotis.

FOUR-O'CLOCK. See Mirabilis.

FOXGLOVE. See Digitalis.

**Gaillardia****(BLANKET FLOWER)**

They will produce from early Spring until late Fall a continuous profusion of brilliantly colored flowers, red and yellow predominating. Of easy culture, sow where they are to remain.

Picta, Lorenziana. (A). Double flowers, mixed colors. Oz., 30c; pkt., 10c.

Grandiflora. (P). Constant bloomers. Mixed single. Oz., 50c; pkt., 10c.



Gaillardia.





Mrs. Dr. Norton Gladioli.

## Choice Gladiolus Bulbs

We give you here just a few varieties of Gladiolus Bulbs, but if you wish any that are not listed, give us the name and we will quote you price as our stock is large and we cannot give here the name and description of every variety.

**Alice Tiplady.** Beautiful orange-saffron. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Anna Eberius.** Deep rhodamine purple, throat deeper purple; large flowers on tall spikes. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Chateau Thierry.** Bright scarlet-red with carmine blotch on yellow ground on lower petals; large, wide open flowers of great attraction. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Crimson Glow.** Very large deep scarlet-red, tall, strong spikes. One of the best reds. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Evelyn Kirtland.** Beautiful rose-pink, darker at the edges with brilliant blotches on lower petals. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Glory of Kennemerland.** Beautiful rose color with purple blotch on yellow ground, a lovely color combination. Each, 10c; doz., 90c; per 100, \$6.00.

**Halley.** A very early salmon-pink, very popular. Each, 7c; doz., 75c; per 100, \$5.00.

**Herada.** Large, pure mauve flowers, deeper in throat, a great favorite. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Le Marechal Foch.** The favorite pale pink variety. Flowers are extra large and very early. Each, 5c; doz., 60c; per 100, \$4.00.

**Mrs. Dr. Norton.** Silvery white blooms with pink edges, throat cream-yellow dotted Tyrian rose. A beautiful color combination. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Mrs. Francis King.** Brilliant light red, large flowers on extra long spikes; very popular. Each, 5c; doz., 60c; per 100, \$4.00.

**Mrs. Frank Pendleton.** Salmon-pink with rich carmine-red blotch in throat; a great favorite. Each, 10c; doz., 90c; per 100, \$6.00.

**Mrs. Watt.** Beautiful clear wine-red. Each, 10c; doz., \$1.00; per 100, \$7.00.

**Panama.** Beautiful deep pink, large flowers; one of the best clear pinks. Each, 7c; doz., 75c; per 100, \$5.00.

**Peace.** Large white flowers with pale violet markings on the lower petals; tall, graceful spikes. Each, 7c; doz., 75c; per 100, \$5.00.

**Prince of Wales.** Beautiful light orange flowers of good size. Very early. Each, 10c; doz., \$1.00; per 100, \$6.00.

**Rose Ash.** Corinthian red shading to ashes of roses color on the outer edges; lower petals light yellow speckled with ruby. A very beautiful show variety. Each, 15c; doz., \$1.60; per 100, \$12.00.

**Schwaben.** Clear canary-yellow shading to soft sulphur; small brownish red spot in throat. An old timer but still a favorite. Each, 5c; doz., 60c; per 100, \$4.00.

**War.** Deep brilliant blood-red, large flowers. A great favorite among the large reds. Each, 12c; doz., \$1.25; per 100, \$9.00.

**Wilbrinck.** Pale pink, lower petals have purplish stripes on a yellowish ground, very early. Each, 7c; doz., 75c; per 100, \$5.00.

**Standard Mixed.** This mixture contains many beautiful varieties of different shades and markings. Each, 5c; doz., 60c; per 100, \$3.50.



### Globe Amaranth (A) (GOMPHRENA)

One of the choicest of the everlasting flowers. With clover-like heads which retain their shape and color splendidly for the Winter bouquet. Mixed, all colors. Oz., 50c; pkt., 10c.

### Gourds (A)

Interesting quick growing vines, excellent for covering arbors; ornamental foliage and fruits of odd design. Mixed, all varieties. Oz., 25c; pkt., 10c.

### Helianthus (A) (SUNFLOWER)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 ft.

**Double Chrysanthemum Flowered.** Large golden yellow flowers, resembling a chrysanthemum. Oz., 30c; pkt., 10c.

### Helichrysum (A) (STRAWFLOWER)

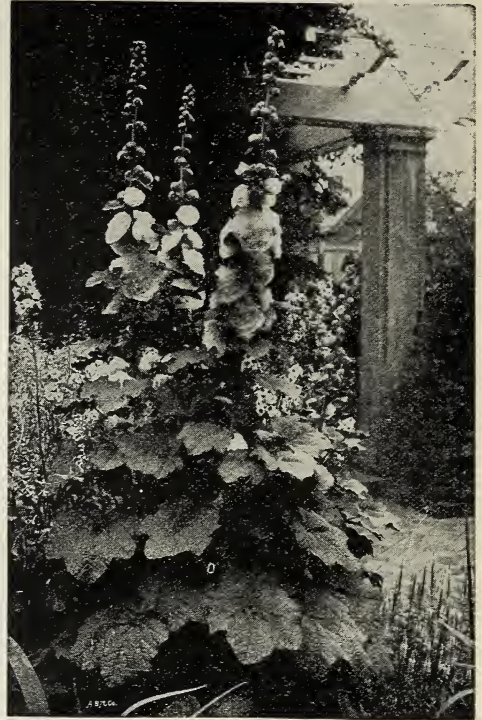
An ornament to the garden when growing, and are everywhere prized for the Winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place. Mixed, all colors. Oz., 50c; pkt., 10c.

### Heliotrope (A)

A favorite on account of its delightful fragrance and duration of bloom. Excellent for bedding. Graceful in habit of growth and valuable for cutting. 2 ft. Finest Mixture.  $\frac{1}{4}$  oz., 50c; pkt., 10c.



Helichrysum—Strawflowers.



Double Hollyhocks.

### Hibiscus (P) (MARSHMALLOW)

Showy-ornamental plants for mixed beds or shrubbery borders having large sized, beautifully colored flowers, blooms the first year if sown early. Sow seed  $\frac{1}{2}$  inch deep and transplant to 2 ft. apart. 3 ft. Mixed colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

### Larkspur (P)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 ft.

**Single Mixed.** Large single flowers, exhibiting every shade known in Hollyhocks.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**Double Mixed.** Double and semi-double.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

### Hollyhocks (P)

(JACK-AND-THE-BEAN-STALK)

Will grow 8 to 10 feet the first year from seed. Its foliage is large and covers well; it bears small racemes of rosy purple, pea-shaped blossoms toward the close of August. A splendid subject for covering verandas, dead trees, etc. 1-8 oz., 25c; pkt., 10c.

**LADY SLIPPER.** See Balsam.

### Kudzu Vine (A)

These handsome flowers are very effective in borders and planted amongst shrubs. The graceful spikes of blooms are much valued for vases. They continue long in bloom. Double Mixed, all colors. Oz., 40c; pkt., 10c.

**Giant Hyacinth-Flowered.** Mixed. 3 ft. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate colors. Oz., 50c; pkt., 10c.





Annual Larkspur.

**Lupinus (P)**

Attractive in the garden but most desirable for cut flowers. Easily and quickly grown in rather poor soil. Do not transplant. Water well during hot weather. Mixed. Oz., 40c; pkt., 10c.

MARSHMALLOW. See Hibiscus.

**Marigold (A)****(TAGETES)**

In late Summer when many bedding plants are past their prime, Marigolds afford a wealth of color that is simply invaluable. The African varieties produce large self-colored blossoms on tall plants; the French are smaller, but the colors and markings are very interesting, some of the varieties being elegantly striped and spotted.

Double Tall African.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

Double Dwarf French.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**Mignonette (A)**

No garden is complete without this fragrant plant of unassuming mien. One of the principal uses is for cutting purposes and combining in bouquets with other more pretentious blossoms without its delicate odor. Grows 6 to 12 inches high.

Machet. The best for all purposes. Of dwarf habit, with very large red flowers and handsome foliage.  $\frac{1}{4}$  oz., 15c; pkt., 10c.

**Mirabilis (A)****(FOUR O'CLOCK)**

This is another good old-fashioned flower of bushy habit, bearing hundreds of flowers during the season, of white, yellow, crimson and violet. Very charming with its glossy foliage very closely set and dotted all over in the afternoon with a multitude of fairy flowers.

Marvel of Peru. Mixed colors.  $\frac{1}{4}$  lb., 50c; oz., 20c; pkt., 10c.

MORNING GLORY. See Convolvulus.

MOURNING BRIDE. See Scabiosa.

**Myosotis (B)****(FORGET-ME-NOT)**

They are considered among the best Spring flowers. They prefer moist, cool soil, and will bloom freely in Fall and early Spring.

Alpestris. Deep blue.  $\frac{1}{4}$  oz., 25c; pkt., 10c.

**Nasturtiums (A)**

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is a moderately good soil, in a well-drained sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blossoms. The varieties offered were selected from a number of sorts as being the best. Sow seed 2 inches deep and thin plants to 8 inches apart for dwarf varieties and 16 to 20 inches apart for tall or climbing varieties.

Dwarf, Mixed. Oz., 15c; pkt., 10c.

Tall, Mixed. Oz., 15c; pkt., 10c.

See Our Flower Collection on the  
Back Cover

12 Wonderful Varieties, \$1.00



Dwarf Mixed Nasturtiums.





Triumph of the Giants.

## Petunias (A)

For freedom of bloom, variety of color and effectiveness these have no equal. If only a little care is bestowed upon them, they will produce their handsome, sweet-scented flowers in their delicate and gorgeous colors throughout the whole Summer and bloom profusely until killed by hard frosts. To facilitate sowing, the seed is mixed with sand or fine dry earth. Be sure the soil is finely pulverized for at least an inch on top of the ground. Scatter the mixture of seed and sand, barely pressing it into the moist soil with a small smooth board. It is an advantage to sow seed early in shallow boxes in the house, hotbed or cold frame, for window or porch boxes, vases and baskets, also for early flowering in the garden. Set the plants 12 to 18 inches apart. The Petunia loves a rich soil and thrives best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.

### SINGLE GIANT FLOWERING VARIETIES

The flowers of this strain average five to seven inches across and are wonderful.

**Giants of California Mixed.** The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. Pkt., 200 seeds, 15c.

**Triumph of the Giants.** The finest strain of single large-flowering Petunias; the flowers often measure seven inches across; some of its colors cannot be found in any other mixture and nearly all the flowers are veined in contrasting colors. Pkt., 250 seeds, 35c.

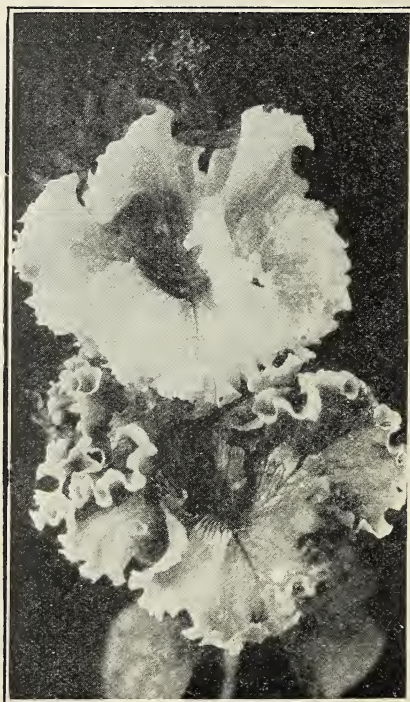
### DOUBLE LARGE FLOWERING VARIETIES

**Mixture of Double Petunias.** This is a mixture of the best large flowering and fringed double Petunias. Seed is saved from plants grown in pots, carefully pollenized and will produce grand flowers. Of course, every one knows only a certain percentage of double flowers may be expected from seed, but our mixture will produce from 20 to 30 per cent of doubles, while the remainder will be choice, large single flowers. The weaker seedlings should be carefully saved, as those invariably produce the finest double flowers. Pkt., 200 seeds, 30c; 4 pkts., \$1.00.

**Best Mixture Large Flowering Single Petunias.** This mixture is made by ourselves and includes, besides the Giant Ruffled, all the colors of the large flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately veined throats in various colors, and their truly mammoth flowers. We are positive no other Petunia mixture can produce flowers with as wide a range of colors as ours. Pkt., 300 seeds, 25c.

**Special Mixture of Dwarf Small Flowering Varieties** includes all the varieties listed and many others and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the Summer lasts.  $\frac{1}{2}$  oz., 40c; pkt., 10c.

**Rosy Morn.** The plants are bushy and compact, flowers of medium size, produced in great abundance the entire Summer and Fall; are of a most pleasing clear pink, contrasted by a broad white throat. A splendid sort for porch boxes, pots and beds. Oz., \$4.00; 1-8 oz., 75c; pkt., 25c.



Giant Ruffled Petunias.



## Phlox

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost or care. For pot culture and as an undergrowth for tall, bare-stemmed plants, they are also invaluable. The first sowing should be made as soon as the frost is out of the ground in Spring, later ones in May, either where the plants are to bloom, or in a seed-bed, as the Phlox transplant readily. In transplanting, set the taller kinds about a foot apart. Cutting away the old flowers makes the plants more bushy and compact, and lengthens their blooming time.

**Phlox Drummondii.** (A). Unsurpassed for variety of colors. Flowers are smaller than those of the large flowering varieties. Mixed. 1-8 oz., 25c; pkt., 10c.

**Decussata.** (P). Hardy herbaceous perennial and quite distinct from the Phlox Drummondii offered above, which is an annual. For best results seed should be sown in the Autumn. Finest Mixed. ¼ oz., 75c; pkt., 10c.

**PINKS.** See Dianthus.



Phlox Drummondii.

## Pansies (B)

They like a cool, moist soil and protection from the wind as well as the noon-day sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the Spring, the seed should be sown in August or September and the plants protected with a cold frame during the Winter. Seed may also be sown out-of-doors in the Spring for late Summer and Fall flowers.

**Non Plus Ultra, Giant Mixture.** This includes the most delightful variations in shades and markings, and is easily the most beautiful pansy grown. Very large in size, the blossoms measuring more than three inches across. A favorite with the pansy fancier. ½ oz., \$1.00; ¼ oz., \$1.75; 1 oz., \$6.00.

**Giant Mixture.** Flowers very large, and great diversity of colors. This mixture contains all the good ones. Oz., \$5.00; pkt., 10c.

**Good Mixture.** Not so many colors as the Giant Mixture, but flowers large and good assortment of colors. Oz., \$2.00; pkt., 10c.



Pansies.

## Poppies

Should be sown as early in the Spring as possible, where they are to remain as they will not stand transplanting. Sow very thinly, as they must not stand nearer than 5 or 6 inches apart if you wish best results.

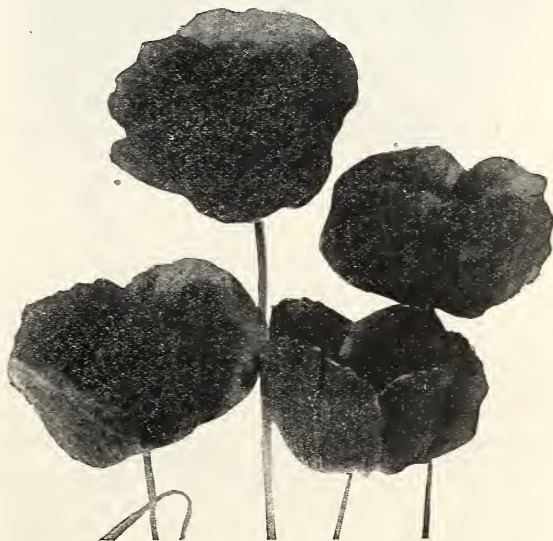
**Ryburgh Hybrid.** (A). The flowers are double and resemble a giant carnation, with flat petals overlapping like a double begonia. The colors embrace all shades of pink, salmon, orange, etc.; all self colors. Mixed. ¼ oz., 40c; pkt., 10c.

**Double Poppies.** (A). Special mixture as to variety as well as colors. Oz., 25c; pkt., 10c.

**Shirley.** (A). These have beautiful satiny flowers of various colors, all with white centers, which makes the plants very attractive. Foliage is hairy and finely cut. Beautiful shades in delicate tints of rose, apricot, salmon-pink and blush to glowing crimson with a sprinkling of blues. Oz., 50c; pkt., 10c.

**Single Poppy.** (A). Special mixture. Varied assortment and colors. Oz., 25c; pkt., 10c.

**Oriental Poppies, Hybrids, Choice Mixed.** (P). These should be sown in early Spring in the open ground as soon as it is fit to work. The plants disappear during July and August appearing again as soon as the weather gets cool. It is well to mark the place with a stick so the roots will not be disturbed during this resting period. When the Fall growth starts they should be transplanted to their permanent flowering quarters. For permanent beds they are unequalled. Flowers of immense size, 6 inches and over, of many novel colors. ¼ oz., 40c; pkt., 10c.



Oriental Poppies.



### Portulaca (A) (ROSE MOSS)

This plant will grow and bloom profusely in dry hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed through, and very soon one of the loveliest of floral carpets will appear.

Double Best Mixture. Oz., \$2.50; 1-8 oz., 50c; pkt., 10c.

Single Mixed.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

POT MARIGOLD. See Calendula.

### Ricinus (A) (CASTOR BEAN)

Decorative plant with fern-like foliage, giving to the garden a magnificent sub-tropical effect; even a single plant forms a pyramid of leaves. Zanzibarensis. Leaves vary in color from light green to purplish red.  $\frac{1}{4}$  lb., 50c; oz., 15c; pkt., 10c.



Portulaca—Rose Moss.

### Salvia (A) (FLOWERING SAGE)

A hedge or bed of Salvias is a blaze of color during late Summer and Fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about  $\frac{1}{4}$  inch deep; transplant when the soil has become well warmed, about 12 to 18 inches apart.

Splendens. 2½ ft. The well known variety, fiery scarlet. Oz., \$2.00;  $\frac{1}{4}$  oz., 60c; pkt., 10c.

Fireball. 1½ ft. The bushy plant is covered with a great number of flower spikes of the most fiery scarlet. The plants branch freely, the side shoots often producing 4 to 6 flowering spikes. Oz., \$3.00; pkt., 15c.



Salvia—Flowering Sage.

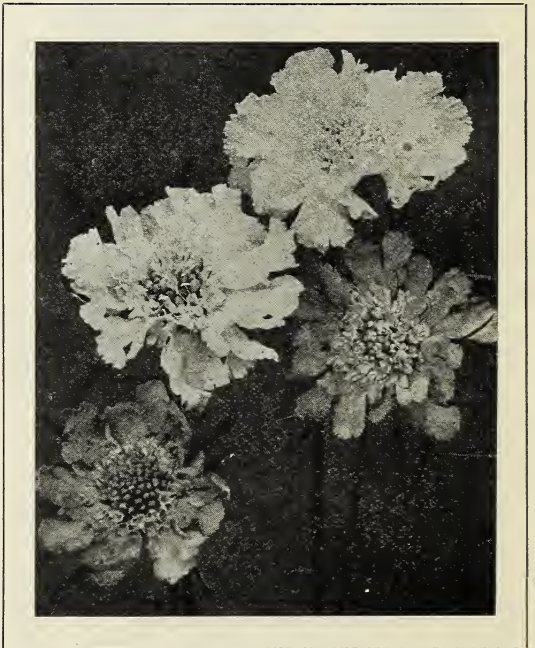
### Scabiosa (A) (MOURNING BRIDE)

This is an old favorite and of late years has been greatly improved. The flowers are borne on long wiry stems in many beautiful colors. An exceptional garden plant and indispensable for cutting. Sow out doors in May. Keep the seed pods clipped and the plants will bloom much longer. 12 to 18 inches.

Grandiflora Mixed. Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

### Scarlet Runner (A)

A very rapid grower, bearing large sprays of bright scarlet pea-like flowers from early Summer to late Fall. Pkt., 10c.



Scabiosa.





Shasta Daisies.

**Shasta Daisy (P)****(CHRYSANTHEMUM LEUCANTHEMUM)**

Grows very bushy, bearing all Summer a profusion of immense white flowers on long stems.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

**SNAPDRAGONS.** See Antirrhinum.

**STRAWFLOWERS.** See Helichrysum and Globe Amaranth.

**Stocks (A)**

They last a long time in bloom, are beautiful, fragrant and satisfactory. May be sown in the open ground, or in the hotbed or cold frame, but if transplanted let this be done when the plants are small. Transplant 1 ft. apart.

**Ten Weeks Large Flowering.** The favorite sort for bedding. Grows about 1 ft. high. Mixed, all colors.  $\frac{1}{4}$  oz., 50c; pkt., 10c.

**Giant Perfection or Cut-and-Come-Again.** Useful for outdoor bedding as well as for pots or cut flowers. They throw out numerous side branches, all bearing double fragrant flowers. Height 18 in. Mixed.  $\frac{1}{4}$  oz., \$1.00; pkt., 10c.

**SUNFLOWER.** See Helianthus.

**SWEET ALYSSUM.** See Alyssum.

**Sweet William (P)**

This sturdy, reliable old-fashioned favorite is still a source of delight in the garden of today. Seed may be sown at any time from Spring to midsummer. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. It is best if you give slight protection during the Winter. It likes warm, rich soil. 2 ft.

**Single, Finest Mixed.** A very choice assortment of all the best single flowered varieties.  $\frac{1}{4}$  oz., 20c; pkt., 10c.

**Double Mixed.** This mixture you will find of superior quality, containing all colors and shades.  $\frac{1}{4}$  oz., 40c; pkt., 10c.



Sweet William

**Schizanthus (A)****(BUTTERFLY FLOWER)**

Low growing, delicately branching and covered with butterfly-like flowers. Sow out-of-doors in May. Pinch back the main stem when 6 inches high. It seems to develop best in cool seasons, so make successive sowings through Spring and Summer. **Supreme Mixture.** All colors.  $\frac{1}{4}$  oz., 25c; pkt., 10c.



Stock or Gilliflower.



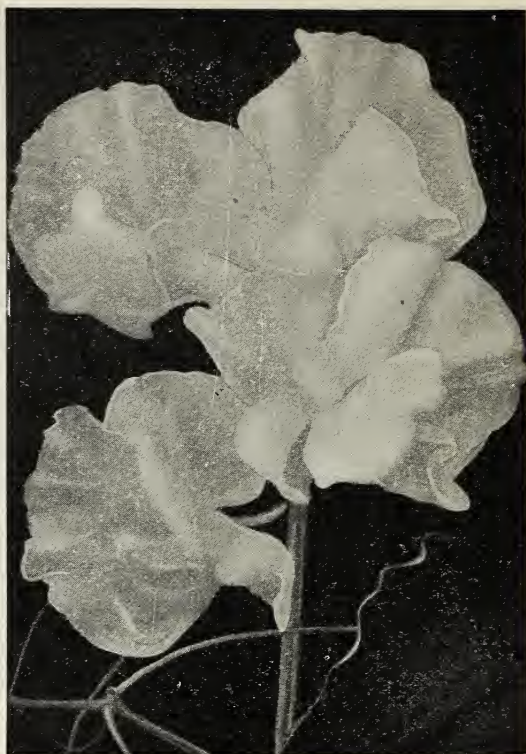
## Beautiful Sweet Peas

We offer the following beautiful varieties of orchid flowering or Spencer Sweet Peas, all of recent introduction.

**Miss California.** The color is a distinct shade of salmon-pink, and the effect is extremely beautiful, whether under natural or artificial light. The vines are of vigorous growth and bear profusely many four-flowered sprays of exquisitely waved or fluted form. The stems are long and stout. In the garden, Miss California is most attractive as the handsome flowers stand out from the heavy foliage, which forms a most attractive background. Oz., 40c; pkt., 10c.

**Mary Pickford.** A beautiful dainty cream-pink with just the faintest suffusion of salmon, making the color combination hard to surpass. The flowers are perfectly formed with both standards and wings decidedly waved. Mary Pickford is a sturdy grower, producing an abundance of large four-flowered sprays on long, stout stems. This sweet pea was a large seller last season, and is a decided favorite both with the commercial grower and in the home garden. Oz., \$1.00; pkt., 10c.

**Youth.** Clear waxy white, with a well defined clear pink edging. This is undoubtedly the best of all Picotee sweet peas. Enormous flowers which are wonderfully fragrant. Oz., 40c; pkt., 10c.



Miss California Sweet Peas.

**Doreen.** Bright rose-carmine. A huge flower much larger and brighter than any other carmine variety. Very popular with exhibitors on account of its large size. Bears a profusion of four blossom sprays. Oz., 40c; pkt., 10c.

**Campfire.** This is the brightest, pure flame scarlet we have ever offered. It leads all other varieties in this class. The blossoms will stand the hottest sunshine without burning. Oz., 40c; pkt., 10c.

**Crimson King.** Pure deep crimson, the most pronounced deep red of all sweet peas. The strong, straight stems, 16 to 18 inches long stand out well from the foliage and invariably carry more four-flowered sprays than three. Oz., 40c; pkt., 10c.

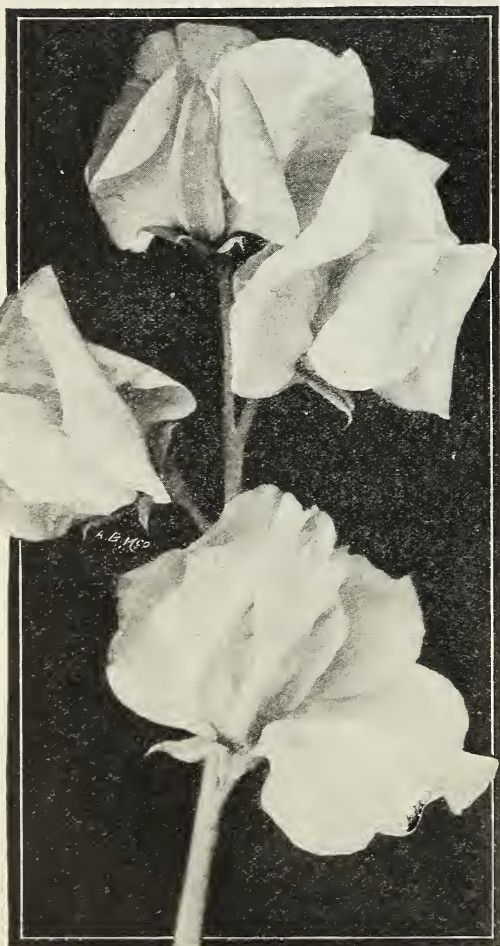
**Austin Frederick Improved.** The finest pure lavender sweet pea yet introduced. The flowers are large, wonderfully fragrant. Oz., 40c; pkt., 10c.

**Hebe.** Large flowers, old rose with pink shading, making a very wonderful color combination. The stems are long and the flowers stand out from the foliage in a pleasing array. Oz., 40c; pkt., 10c.

**Tangerine Improved.** A salmon-orange sweet pea, deep colored, almost approaching the color of the tangerine orange. Fragrant. Oz., 40c; pkt., 10c.

**Superb Spencer Mixed.** A great many people prefer to grow Sweet Peas in the mixed colors. Our superb Spencer Mixture is made up of all the best varieties obtainable. The greatest care is taken to insure a well balanced range of colors and worthy of a place in any garden. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50.

**Grandiflora Mixed.** This mixture is made up of the choicest sorts and while not as large as the Spencer type, bloom more profusely. This mixture is one of the best. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.00.



Mary Pickford Sweet Peas.

**TAGETES.** See Marigold.





Giant-Flowered Zinnias.

### Thunbergia (A)

**Alata.** A lovely trailing plant with large, showy flowers. It will trail over the ground, forming a dense mat of foliage and flowers. Colors range through all shades of yellow, orange, buff, to pure white, mostly with jet-black centers or eyes, which are very effective. Sometimes called "Black-eyed Susan." All colors mixed.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**TICKSEED.** See Calliopsis.

### Verbena (A)

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when the seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

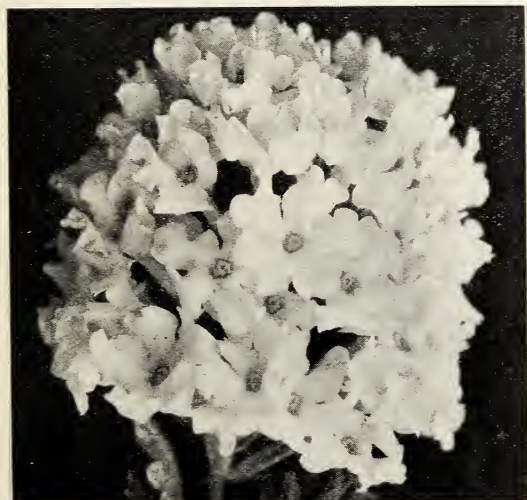
**Mammoth Purple.**  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**Mammoth Mixed.** Producing in handsome umbels flowers of large size in beautiful shades of white, rose, scarlet, blue and purple.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

### Wild Cucumber (A)

(ECHINOCYSTIS LOBATA)

This is the quickest growing climber in our list. It is thickly dotted over with pretty, white, fragrant flowers, followed by an abundance of ornamental and prickly seed pods.  $\frac{1}{4}$  lb., 75c; oz., 25c; pkt., 10c.



Verbena.

## Zinnias (A)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

**Lilliput Double, Mixed.** 12 in. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are pretty plants.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

**Giant Double Quilled Achievement.** The petals are partially tubular or quilled, in appearance resembling the cactus dahlia. On the reverse side the petals are light or dark lilac. The plants are of strong, robust growth, and produce an abundance of very large double flowers often 5 inches in diameter. Choice Mixed.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

**Colossal or Giant Flowered.** The flowers are gigantic in size; thickly set with velvety petals. The plants are vigorous, branching freely and are fine for cutting. Mixed colors.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

**Giant Dahlia Flowered.** In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the Show Dahlias. Mixed colors.  $\frac{1}{4}$  oz., 75c; pkt., 10c.

**Double Mammoth Mixed.** All the varieties listed here and others in one mixture.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

### Vinca (A)

(PERIWINKLE)

Ornamental free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out-of-doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the Winter; a fine cut flower, every bud opening when placed in water. 2 feet.

**Rosea.** Rose, dark eye.  $\frac{1}{4}$  oz., 40c; pkt., 10c.

### Wallflower (P)

The Wallflower should win favor for outdoor bedding and pot culture. The oriental coloring is very effective. In the northern states it should be wintered in cold frames. Grows 2 ft.

**Single Mixed.** Oz., 25c; pkt., 10c.





A Lawn of Our Sunny Lawn Mixture.

## Grass Seed for Lawns and Golf Courses

We specialize in the highest grade of grass seeds for lawns and golf courses. Nothing adds as much to the external attractiveness of a home as a beautiful, well kept lawn.

If your soil is not a good garden soil, you must make it so. Save the good top soil and remove the balance to a depth of at least six inches, then apply two inches of clay if the soil is sandy, replace the top soil and enough more to bring up to grade line. Apply two inches of well-rotted stable manure (never use fresh manure) or if that is unobtainable, use pulverized poultry or sheep manure at the rate of 100 pounds to 3,000 square feet. To this should be added an equal amount of bone meal. This fertilizer thoroughly mixed with the top soil will make an ideal foundation for a lasting lawn.

**Seeding.** Procure the very best seed you can get. Do not take chances on cheap seed if you want good results. Our lawn mixtures contain only the very best re-cleaned seed and are made up of the proper proportion of the several grasses to make a permanent lawn. Sow one pound to 300 square feet. Cover with one-fourth inch of screened soil and roll or firm with the back of a spade or a board.

**Watering.** Keep the surface of the new seeding moist but do not water to excess. Do not expect to see your lawn green in a week as Kentucky Blue Grass requires about 18 days to germinate, other grasses somewhat less. Some mixtures will come up in far less time, but you will generally find the bulk of such seed to be annual grasses which will not come up the second year. After the lawn is established, it is not necessary to water oftener than once a week, but then give it a thorough soaking. Frequent sprinkling tends to keep the roots near the surface and they will not have any reason to penetrate deep into the sub-soil for moisture, hence, when you have a period of hot, dry weather and cannot sprinkle, the grass plants will naturally suffer.

**Mowing.** As soon as the grass is long enough to cut, go over it with the mower, blades set about 1½ to 2 inches high. When the lawn is well established, they can be lowered to one inch. Never let the lawn grass go to seed as that will be too great a drain on the plants. The best time to seed is March and April or August and September.

Top dress in late Fall or early Spring with pure bone meal and pulverized poultry or sheep manure. Remember, a grass plant is a living thing and must have a strong constitution (good seed); proper living quarters (good soil); nourishment (proper fertilizer and moisture), and careful attention to its health (regular clipping, not too close; mulching to retain moisture by leaving the clippings occasionally if any thin spots occur).

**Kentucky Blue Grass (June Grass).** One of the best grasses for permanency. For lawns or pasture, it has no superior. Does well in any soil and stands the Summer heat remarkably well. As it takes some time to become established, it is usually sown in mixtures. **Lb., 50c.**

**Canadian Blue Grass.** Succeeds on soil too poor for Kentucky Blue Grass. For shady spots it is advisable to use, as it is hardier and is better adapted to Michigan weather conditions. **Lb., 50c.**

**Red Top.** A very hardy perennial grass, succeeding best on moist land. Valuable for lawn or pasture, and will produce large crops of good hay. **Lb., 50c.**

**White Clover (Dutch).** A small, low growing variety. It is largely used in lawns and pastures. It makes a small, close, compact growth covering the ground like a carpet. Its blossoms are round, white and sweet scented, with numerous leaves of bright green color. It succeeds well in Michigan and looks better when sown in mixtures. **Lb., 75c.**

**Perennial Rye (English).** A desirable grass for lawn or pasture. It forms a heavy close sod of medium fine grass and grows quickly after being cut. **Lb., 25c.**

**Mixed Bent Grass.** One of the most valuable lawn grasses. Exceptionally good for golf courses, greens, etc., because of its short growth and deep green, fine-leaved foliage. **Lb., \$1.00.**

**Creeping or Red Fescue.** Resists extreme drought, thrives on inferior soil, gravelly banks and exposed hills. **Lb., 60c.**

**Orchard Grass.** This grass grows well in the shade, is rather rank in growth and a stooling variety. Stands the drought remarkably well. Valuable for pasture or orchard. Does well in wet or poor ground and produces large crops of hay. **Lb., 25c.**

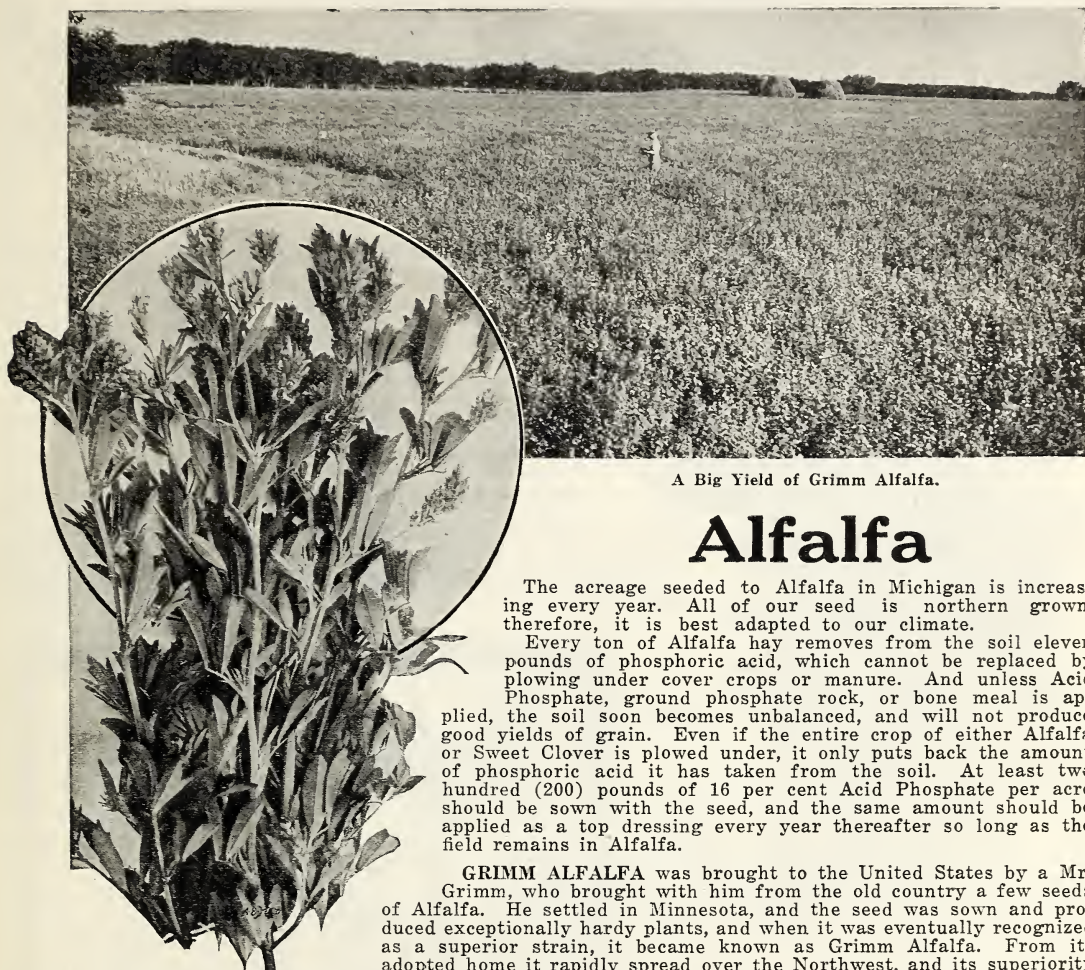
**Sunny Lawn Mixture.** Contains Kentucky Blue Grass, Red Top, Perennial Rye and White Clover. This mixture is made from only the very best of seeds, of lasting value and hardiness, and will produce an even dense growth of permanent sward, which improves in velvety density with age. **Lb., 50c.**

**Shady Lawn Mixture.** Contains Kentucky Blue Grass, Red Top, Canadian Blue Grass and Fescue, and will make a dense, thick growth in light soils and a very satisfactory lawn in shady places. Under trees and bare spots, where the ground is sour, apply lime to correct this condition. Our mixture is made from only the best of seeds and is best adapted for shady places. **Lb., 50c.**

The prices quoted on this page are f. o. b. Grand Rapids.



# FIELD SEEDS



A Big Yield of Grimm Alfalfa.

## Alfalfa

The acreage seeded to Alfalfa in Michigan is increasing every year. All of our seed is northern grown, therefore, it is best adapted to our climate.

Every ton of Alfalfa hay removes from the soil eleven pounds of phosphoric acid, which cannot be replaced by plowing under cover crops or manure. And unless Acid Phosphate, ground phosphate rock, or bone meal is applied, the soil soon becomes unbalanced, and will not produce good yields of grain. Even if the entire crop of either Alfalfa or Sweet Clover is plowed under, it only puts back the amount of phosphoric acid it has taken from the soil. At least two hundred (200) pounds of 16 per cent Acid Phosphate per acre should be sown with the seed, and the same amount should be applied as a top dressing every year thereafter so long as the field remains in Alfalfa.

GRIMM ALFALFA was brought to the United States by a Mr. Grimm, who brought with him from the old country a few seeds of Alfalfa. He settled in Minnesota, and the seed was sown and produced exceptionally hardy plants, and when it was eventually recognized as a superior strain, it became known as Grimm Alfalfa. From its adopted home it rapidly spread over the Northwest, and its superiority is rapidly superseding the Common Alfalfa. We have never known a failure in Michigan of true Grimm. Our Grimm Alfalfa, which is scarified seed, is grown by reputable organizations, and certified by the proper State officers in the state where grown, and guaranteed by them. Write for prices.


ALFALFA (Common). Grown in Utah. The fields from which this seed was grown were carefully inspected. The seed is bright and plump, a beautiful golden color; free from dodder and all foul seeds. Scarified and carefully tested for germination. The high altitude of the mountain states insures hardiness. Write for prices.







# The CLOVERS



**Medium Red or June Clover.** By far the most important of all clovers for practical purposes. It is a perennial, and grows about two feet high; very valuable for plowing under to enrich the soil, adding humus and nitrogen. We handle only one grade—the best—as it is folly to buy anything else. Sow in Spring or Fall, eight to twelve pounds per acre, if used without other grasses.

**Mammoth or Large Red Clover.** Mammoth Clover is quite distinct from Medium, growing to nearly twice its size; is coarser and a little later. It can be grown successfully on poorer soil than Medium Clover. It is used extensively for building up wornout land. Sow about eight to twelve pounds per acre when sown alone.

**Alsike Clover.** A perennial, and the most hardy of all clovers. It prefers damp, loamy soil. It is extremely leafy, making hay of a fine texture. Does not readily winterkill, and is valuable to sow with other clovers and grasses, as it increases the yield of hay. It is the best clover for moist soil. Sow either in Spring or Fall, about six pounds per acre, when sown alone.

Medium  
Red Clover.

Right ☞  
White Blossom  
Sweet Clover.

**White Blossom Sweet Clover.** Once considered a noxious weed; now nearly equal in value to alfalfa. White Sweet Clover is a biennial, and does not last so long as its cousin, alfalfa, but it has a great mission. In pasture it will produce a greater flow of milk than even alfalfa, and as much feed. Cattle are less liable to bloat. Stock soon learn to like the hay, and even prefer it to alfalfa. Write for prices.







## Millet

Usually grows from 2½ to 4 feet high, and makes excellent hay. For hay sow broadcast 25 to 30 pounds per acre. May 1st to August 1st. Does well on dry and light soils.

## Sand Vetch

Sand or Hairy Vetch shares with Sweet Clover the honor of giving the best results in restoring fertility to worn-out land or making poor, sandy soils productive. Sand Vetch has no equal as a cover crop. It can be sown in the cornfield just after the last cultivation, and it will make a mass of green stalks and leaves to plow under about the middle of May; or it may be sown after harvesting oats and plowed for corn the next Spring. Hay made from Sand Vetch is about three per cent higher in protein than Alfalfa hay, and is more eagerly eaten by stock. When sown with oats or any Spring grain, it will come on after crop is harvested and make splendid Fall pasture, and can be plowed under the next Spring for corn or potatoes. Always inoculate the seed unless Sand Vetch has been grown on the land within one or two years. Sow from 30 to 40 pounds per acre. Our Sand Vetch is better than 99 per cent pure.

### NODOGEN

A nodule bacteria for inoculating Sweet Clover and Alfalfa. ½ bu. size, 50c; bu. size, \$1.00. Inoculate your seed and prevent a possible failure.



A Field of Sudan Grass.

## Sudan Grass

A tall annual grass reaching the height of 7 to 9 feet when planted in rows and cultivated, and 4 to 5 feet when sown broadcast. The hay is greatly relished by all stock, and has exceptionally high feeding value. Is adapted to most soils.

## Timothy

The most important of all grasses for hay, and is adapted to a wider range of conditions than any other variety of grass. It is the hardiest of all grasses and excels in feeding value. Sow early in the Spring or Fall, 10 to 12 pounds per acre if sown alone; less if mixed with other grasses.



Sand Vetch.





Leaming Fodder Corn.

## Fodder and Ensilage Corn

Dry Fodder Corn is the most satisfactory substitute for hay. It nearly if not quite equals in feeding value timothy and clover. All stock eat it greedily and thrive on it.

It yields from three to five tons of dry fodder per acre, which is a much larger yield than timothy and clover will give, making a far more profitable forage crop to grow.

It can be sown as late as July first, with a reasonable assurance of a fair growth of fodder, making it an ideal catch crop, as the work can be done after haying rush is over. It can be sown at the usual corn-planting time and by sowing rape between the rows after the last cultivation, it makes splendid Summer pasture for hogs or sheep.

### Leaming Fodder Corn

This variety is preferred by most dairymen for filling silos, for the reason that the corn matures the large ears (in any ordinary season it will ripen), and gives more grain in the ensilage. Stalks very large and leafy, and grows an immense amount of forage to the acre. It requires from one peck to one-half bushel of seed per acre, drilled in rows one way.

### Red Cob Ensilage

A gigantic Southern white corn, producing immensely large ears, rarely maturing in this latitude. The stalks grow from 12 to 15 feet in height, with long, broad leaves from the ground to the tassel. Stalks very thick at the butt, juicy, tender and as sweet as sugar corn; and all stock eat it with relish. Many dairymen prefer it for the silo, for the reason that it produces such an enormous amount of silage (from 15 to 25 tons per acre). It is especially valuable for the dry fodder when cut and kept in the shock until fed. It will produce a good crop of forage, even when sown as late as July. Red Cob Ensilage is one of the best crops to raise for the purpose of killing quack grass or other foul weeds when the land is badly infested. For killing quack grass plow the sod late in the Fall, which, with the freezing of the roots will greatly injure the plants; cultivate with a spring-tooth harrow every week in April and May. Plant Red Cob ensilage in drills, using one bushel of seed per acre, smothering the quack and other weeds. For silos or fodder, sow from one-half to one bushel per acre.

### Eureka Ensilage Corn

Will produce more tons of silo corn per acre than even Red Cob Ensilage corn. Stalks will grow 12 to 15 feet in height, with broad leaves from the ground up. Each stalk will bear from one to three long ears. Very rapid grower and can either be planted in hills or in drill rows. Write for prices.



Ensilage Corn. Ten feet tall.





This Crop Grown with V-C Fertilizers Made 54½ Bushels to the Acre.

# Fertilizers

V. C. Fertilizers are well known, well advertised and well recommended, and as all soil requires enough available plant food to produce a maximum crop, we give you below a list of the V. C. Fertilizers which will give an abundance of available plant food and meet your needs as well as give you a bumper crop.

	Nitrogen	Equal to Ammonia	Available Phos. Acid	Actual Potash
V-C Phospho Tobacco 16% (300 lbs. Tobacco Stems per ton).....			16	
V-C Potash Phospho Tobacco 14-4 (300 lbs. Tobacco Stems per ton)...			14	4
V-C Ammoniated Phospho Tobacco 2-12-2 (300 lbs. Tobacco Stems per ton) .....	1.6	2	12	2
*V-C 16% Acid Phosphate.....			16	
V-C 20% Acid Phosphate.....			20	
V-C 24% Acid Phosphate.....			24	
*V-C Muck Special 0-8-24.....			8	24
V-C Plow Brand 0-10-10.....			10	10
*V-C XXX Potash 0-12-6.....			12	6
V-C Prolific Crop Grower 0-14-4.....			14	4
V-C Farmer's Friend 1-8-3.....	.8	1	8	3
*V-C Tip Top 2-8-16.....	1.6	2	8	16
V-C Owl Brand 2-12-2.....	1.6	13	12	2
V-C Tomato and Truck 2-12-6.....	1.6	2	12	6
*V-C Indian Brand 2-16-2.....	1.6	2	16	2
V-C Big Winner 2-16-6.....	1.6	2	16	6
V-C Big Potato and Truck 3-12-4.....	2.4	3	12	4
V-C Star Brand 3-18-3.....	2.4	3	18	3
*V-C Truck Hustler 4-8-6.....	3.2	4	8	6
V-C Good Luck 4-24-4.....	3.2	4	24	4
V-C Fruit Grower 6-8-0.....	4.8	6	8	0

**BONE GOODS**  
V-C Pure Bone Meal (steamed).....1.25 29 0  
V-C Raw Bone Meal.....3.7 45 20 0  
Analysis marked (\*) especially recommended by the State Agricultural Department. Write us for prices.

**MURIATE OF POTASH.** The best form of Potash for fruit and muck vegetable crops. All root crops draw heavily on the soil for Potash, especially potatoes and onions. Most muck soils are lacking in Potash, and celery will grow a much firmer stalk of far better quality when either a high grade fertilizer, high in Potash, or Muriate of Potash is applied in liberal quantities.

**NITRATE OF SODA.** In its commercial form contains about 15½% of Nitrogen, equal to about 19½% of Ammonia. As the source of Nitrogen or Ammonia,

in home mixed fertilizers Nitrate of Soda is the most desirable, particularly for all quick-growing crops, and when early maturity is desired, and when inclement weather is at hand, or frost, Nitrate of Soda will give maturity before the frost really kills.

**SULPHATE OF AMMONIA.** Used largely in orchards for practically all kinds of fruit; especially valuable for melons and tomatoes, which thrive better in a slightly acid soil. A form of nitrogen which is coming into general use with fruit men and truck growers. It will take the place of Nitrate of Soda to a certain extent, in so far that it is not so quick acting.

**LIME.** Pulverized Agricultural Limestone is not a fertilizer as it is commonly thought, but is a soil sweetener, and every farmer can insure the constant fertility of his soil by using a little care and "feeding" the soil regularly with the elements needed. One of the most common ailments for lack of fertility in farm land is "ACID SOIL", and it is to correct this condition, to "sweeten" or neutralize acid soil that Pulverized Limestone is used; it has brought bumper crops, money-making crops, on farms that otherwise would be practically worthless. Run down fields where you have been unable to grow alfalfa or clover and where moss, sour grass and thistles thrive, need pulverized limestone.

**PULVERIZED HEN MANURE.** Contains double the plant food value of Pulverized Sheep Manure and is sold as cheaply. Hen Manure is collected mainly from unloading cars in which poultry have been shipped and is dried and finely ground so that it can be evenly applied and not burn vegetation.

**PULVERIZED SHEEP MANURE.** This is collected from the Stock Yards, heated to kill weed seeds, finely ground, and forms an excellent fertilizer for lawns, golf courses, garden plots, etc.

**TANKAGE AND BLOOD AND BONE FERTILIZERS.** We also have the TANKAGE and BLOOD AND BONE fertilizers in stock, sell an enormous lot during the course of a year, and are in position to quote you attractive prices.

We handle large quantities of these fertilizers every year, have a large stock at all times, and ask that we be given a chance to quote you. Write us for prices.

We specialize in large quantities of MURIATE OF POTASH, NITRATE OF SODA, SULPHATE OF AMMONIA, PULVERIZED AGRICULTURAL LIMESTONE, and are in position to take care of all orders, either wholesale or retail, and solicit your orders. Write us your requirements, and let us take care of your wants.



# FERTILIZERS

## GRASSELLI ODORLESS PLANT FOODS AND VIGORO

*For Lawns, Golf Courses and Gardens.*

On the foregoing page we have given you a list of fertilizers we handle, most of which are primarily for farm use, but some may be, and are used for the lawn and garden, but on account of the natural odors of these fertilizers, they are not preferred by a large majority of people. Odor is not essential in the plant food value of any fertilizer because there are only three chemical elements commonly used in a fertilizer, none of which have any odor in themselves. They are ammonia (nitrogen) phosphate and potash, each of which has been proved to be essential for plant life and must be supplied to get the best results.

We give you here two brands that we handle, both of which are well known and have in years past proven their merit. They are high grade fertilizers and are entirely free of odor and can be used to good advantage in the house as well as out-of-doors on the lawn and garden. The best of results have been obtained with them and they are highly recommended by the manufacturers.



*makes it easy to have*  
**A Beautiful Lawn**

—with thick, deep-rooted and colorful turf. Equally good for gardens, shrubs and trees. In 5, 10, 25, 50 and 100 lb. bags, at

5 lbs., 50c; 10 lbs., 75c; 25-lb. bag, \$1.75;  
50-lb. bag, \$3.00; 100-lb. bag, \$5.00, f. o. b.  
Grand Rapids. 1-lb. trial package, 10c.

*Also  
in 1 lb.  
Packages*



**GRASSELLI GRADE**  
*A Standard Held High for 89 Years.*

## Beautify Your Home—Use Vigoro

You can beautify your home by having a velvety green lawn, crisp succulent vegetables, colorful flowers, luxuriant shrubbery and stately trees if you will keep in mind the fact that plants, like human beings, must be fed—and fed the right kind of plant food.

Vigoro is specially prepared to supply growing things with all of the plant food elements needed for rapid, sturdy and luxuriant growth.

Vigoro is odorless, clean and easy to apply. It can be sown by hand like grass seed.

For lawns, gardens, flowers, shrubbery and trees.

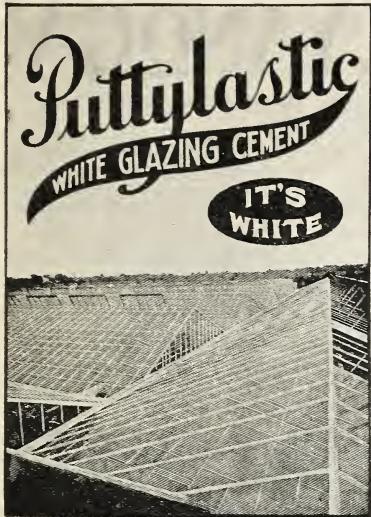
100-lb. bag	.....	\$5.00
50-lb. bag	.....	3.00
25-lb. bag	.....	1.75
5-lb. bag	.....	.50

**VIGORO**  
*Specially prepared plant food*  
A Swift & Company Product





Putty, Paint and Fruit Packages



Puttylastic

Puttylastic is a PURE WHITE GLAZING CEMENT which remains SOFT and ELASTIC like black glazing cements, and makes the quickest and neatest sealing or joining repair of cracked greenhouse glass.

1 gal.	.....per gal.	\$2.75
5 gals.	.....per gal.	2.65
20 gals.	.....per gal.	2.55
35 gals.	.....per gal.	2.53
50 gals.	.....per gal.	2.50

F. O. B. Grand Rapids

Fruit Packages

We carry a large stock of fruit packages at all times and are in position to quote you the lowest market prices.

Tub Bushels, Bushels, Half Bushels, Berry Boxes, Crates and Fillers, Picking Baskets, Attractive Road-side baskets of all kinds.

Give us an opportunity to quote you on a dozen or a carload.



5 lbs., 75c; 10 lbs., \$1.25; 50 lbs., \$5.00, f. o. b. Grand Rapids.

Arco Glazing Material and Putty

ARCO 834—BLACK

A plastic material for glazing and caulking. Especially desirable for factory and greenhouse work.

ARCO 835—WHITE

Arco 835 is a plastic glazing material applied with an Arco Glazing Gun for glazing and bedding skylights or upright glass in metal or wood sash.

		No. 834	No. 835
		Black	White
1 gal.	.....per gal.	\$1.75	\$2.35
5 gals.	.....per gal.	1.70	2.25
20 gals.	.....per gal.	1.50	2.15
40 gals.	.....per gal.	1.40	
60 gals.	.....per gal.	1.10	

F. O. B. Grand Rapids

The Arco Glazing Gun

Improved style. The barrel is made from heavy gauge seamless steel tubing. Is light in weight, (2 lbs.) strong and durable. Will last a lifetime. It saves time and energy. Price, \$5.00 each.

Putty Bulbs, each .....\$1.25



Tree Tanglefoot

PRICE TO CONSUMERS Each

1-lb. packages	.....	\$0.60
5-lb. packages	.....	2.75
10-lb. packages	.....	5.25
25-lb. packages	.....	11.00

The 1-, 5- and 10-lb. sizes are lithographed cans, the 25-lb. size is a wooden pail.



# INSECTICIDES

## "NICOFUME" LIQUID

Nicotine Solution for fumigating or spraying. A highly refined solution of "free" Nicotine, containing 40 per cent of Nicotine.

8-lb. tins .....	\$13.00 per tin
4-lb. tins .....	7.00 per tin
1-lb. tins .....	2.00 per tin
¼-lb. tins .....	.75 per tin

## NICOFUME TOBACCO POWDER

For Fumigating Greenhouses

5-lb. tin .....	\$4.00 per tin
10-lb. tin .....	7.50 per tin

## "BLACK LEAF 40"

(Sulphate of Nicotine)

A concentrated solution of Nicotine Sulphate containing 40 per cent Nicotine. For sheep and cattle dipping and spraying for Pear Thrips, Green Aphids, Pear Psylla, Hop Louse, Black Aphids, Woolly Aphids, etc.

10-lb. tins .....	\$13.50 per tin
2-lb. tins .....	3.50 per tin
½-lb. tins .....	1.25 per tin
1-oz. bottle .....	.35 each

## VOLCK

Effective, safe and easy to use. An oil spray for the control of all pests. Can be used on the tenderest plant with absolute safety. Volck is odorless, colorless and non-poisonous. ½-pt. can, 50c; 1-qt. can, \$1.00; 1-gal. can, \$3.00, not prepaid.

## COPPER SULPHATE

(Blue Vitriol)

We are distributors for one of the largest refiners in the country, carrying in stock at all times the pulverized, small and large crystals. The connection we have on this material allows us to sell in any quantity, carload or less, at very attractive prices. Please allow us to quote you before purchasing your requirements.

## DERRISOL

A non-poisonous and odorless insecticide for aphids, plant lice, green and black flies, leaf hoppers, red spider, thrip and many other soft bodied sucking insects, as well as some leaf eating larvae such as cabbage worms and saw fly larvae. 1-oz. bottle, 35c; ½-lb. bottle, \$1.20; 1-lb. can, \$2.00; 2-lb. can, \$3.00, not prepaid.

Kill Them with

# CYANOGAS

REG. U.S. PAT. OFF.

"Its the GAS that Kills Them"

Garden ants of all kinds, rats and mice, ground moles, woodchucks, land turtles, ground squirrels and prairie dogs, gophers, wax moths, grape leaf hopper, mealy bug, melon aphids, fleas, chicken mites, etc.

CYANOGAS A-DUST is a powdered material that gives off hydrocyanic-acid gas when exposed to the air. This gas is deadly to the rodent and insect pests and will kill them almost immediately.

CYANOGAS A-DUST can be applied either with a CYANOGAS DUSTER or with a spoon. The most effective means of applying it for the separate pests is fully described on the can.

The CYANOGAS method of controlling rodent and insect pests is easy, quick and thorough. Use it.

## Greenhouse Fumigation

Inasmuch as hydrocyanic acid gas is liberated from Cyanogas on exposure to the air, acid or fumigating jars are not necessary. Do not attempt to use them.

Fumigation is started at dark by simply scattering the Cyanogas G-Fumigant evenly on the walks, after which the house is closed for the night. The material is scattered evenly from end to end of the house on several of the walks, it being unnecessary to treat every walk.

If it is inconvenient to weigh out the Cyanogas G-Fumigant it may be measured with sufficient accuracy on the basis of one-half ounce for the average level tablespoonful.

By the following morning the gas will have practically disappeared; hence it is not necessary to open the ventilators and air out the house.

1 lb. can, 75c; 5 lb. can, \$3.00; 25 lb. can, \$10.00, not prepaid.

Cyanogas Feeny Duster with long spout and tubing to reach the pests' home. Each, \$1.50, not prepaid.

# Poultry and Dairy Feeds of Proven Value

## Wholesale and Retail Distributors

We have at all times a large stock of poultry and dairy feeds as well as all mill feeds. Anything in the feed line is on our floors at prices that cannot be duplicated in the city. The quality is good and is constantly bringing to us new customers, both from near and far.

24% Open Formula Dairy Ration, Michigan Milk-maker, Michigan Michiflex 24% Dairy, 20% Service Dairy feed; Barley and Oat feed, a very economical buy; Ace High Stock Feed, (Corn and Oat); Gluten feed, 43% Cottonseed; 34% Oil Meal, (old process)

Corn; Cracked Corn; Corn Meal, Oats; Crimped Oats; Ground Oats; Barley; Ground Barley; Crimped Barley, Scratch feed, Egg Mash with or without Buttermilk; Crate Fattener; Meat Scraps, Dried Buttermilk; Rolled Oats; Michigan Horse Feed. Salt in bags or block. Wheat, Oyster Shell, Charcoal, Pearl Grit; Fosforus Minerals and Steamed Feeding Bone Meal.

Anything you want, one bag or a carload. No order too small.

Write us for prices, based on market quotations which prevents us from quoting in the catalog.



# The Dr. Hess Line

## Promotes Health and Thrift in Stock and Poultry

### Poultry Panacea

Gives good health and good feeling to your flock. It starts the eggs and keeps them coming. 1½-lb. pkg., 25c; 5 lbs., 75c; 12½-lb. pkg., \$1.50; 25 lbs., \$3.00.



### Stock Tonic



More milk from your cows. More pounds of pork, and ailing animals made healthy. 3½ lbs., 50c; 10 lbs., \$1.25; 25-lb. pail, \$3.00.

### Fly Chaser

Has the odor of the pines. More milk, more beef, better working animals. ½ gal., 90c; 1 gal., \$1.50.



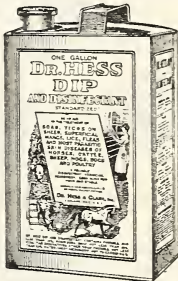
### Instant Louse Killer

Kills lice, ticks, fleas, bugs and slugs. Use it on poultry animals and vegetables. 1-lb. pkg., 25c.



### Dip and Disinfectant

Destroys hog lice, mites, fleas, ticks, scab, ringworm, etc. The cheapest and the best. 1 qt., 60c; ½ gal., \$1.00; 1 gal., \$1.75.



### Roup and White Diarrhea Tablets

Roup Tablets. 100 tablets, 50c; 225 tablets, \$1.00.  
White Diarrhea. Stop it. 100 tablets, 50c; 225 tablets, \$1.00, not postpaid.



## Semesan

A Mercuric Disinfectant  
For General Agricultural Purposes and the Control of Seed, Plant and Soil Diseases  
How Du Pont Semesan Works

Semesan acts primarily as a disinfectant by preventing the development of, or entirely killing, disease bacteria and fungous molds or other parasites which subsist on seeds and plants. Nearly every crop of seeds, no matter how carefully grown and selected, is contaminated with some infectious and deleterious organisms.

In harmlessly cleansing the seeds of these contaminations, Semesan removes the handicaps to healthy development so that the seeds are stimulated to vigorous sprouting during the critical period of their early growth and consequently bear more and finer crops than can those seeds which do not receive its beneficial treatments.

Although Semesan is in no sense a plant food and cannot take the place of meritorious fertilizers, it does exhibit marked tonic effects, probably because it appears to make more readily and completely available for plant food the starch supply in the seed.

SEMESAN can be used as either a dust or a liquid, by the addition of water. We have a supply of circulars covering the various uses of Semesan, sent free on request.

2 ounces	.....	\$0.50
8 ounces	.....	1.60
1 pound	.....	2.75
5 pounds	.....	13.00

Not Prepaid





# Skinner Irrigation Equipment and Supplies

## Skinner Irrigation Equipment

In buying irrigation equipment, as in buying any piece of machinery, attention should be given to the details of design and construction that are indicative of good equipment.

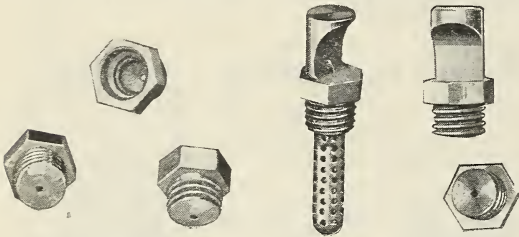
The Skinner System is one of the most improved methods of irrigation, and is used outdoors on gardens, lawns, etc., as well as for greenhouse work.

### Skinner Supplies

Model A drilling machine .....	\$11.70
Model B drilling machine .....	14.70
Large tap drills, 5-16—24, each .....	.65

### Turning Unions

No.	E—Inlet 1 in., outlet $\frac{3}{4}$ to 1 in. unions .....	Tee	Cross
No. E—Inlet 1 in., outlet $\frac{3}{4}$ to 1 in. unions .....	\$2.50	\$2.95	
No. N—Inlet $1\frac{1}{4}$ in., outlet $1\frac{1}{4}$ in. unions .....	3.50	3.75	
No. R—Inlet $1\frac{1}{2}$ in., outlet $1\frac{1}{2}$ in. unions .....	3.95	4.65	
No. S—Inlet 2 in., outlet 2 in. unions .....	4.85	5.85	



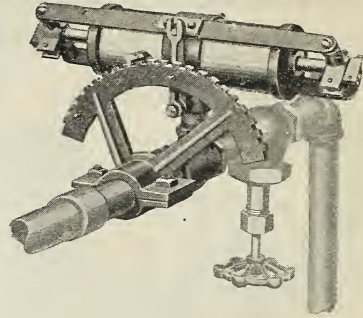
Silver Stream Nozzles.

ST50

Indoor Nozzle.

Silver Stream outdoor nozzles, each .....	\$0.06
Silver Stream indoor nozzles, each .....	8 $\frac{1}{2}$ c
Greenhouse nozzles, ST-50, 10 ft. throw, each .....	9 $\frac{1}{2}$ c
3-4 Automatic flush valves .....	2.25
No. $\frac{3}{4}$ inch flush valves .....	1.25
No. 1 strainers for 1-inch union .....	.24
No. 2 strainers for $1\frac{1}{2}$ -inch union .....	.28
Small quick acting coupling, $\frac{3}{4}$ in. ....	.95
Small quick acting coupling, 1 in. ....	1.25
Shut off end nozzles .....	.85
Non shut off end nozzles .....	.15
Brass turning unions, $\frac{3}{4}$ in. ....	2.50
Brass turning unions, 1 in. ....	3.00
Nipples for 1 in. unions .....	.35
Caps for unions, 1 in. ....	.60
Caps for unions, $1\frac{1}{4}$ in. ....	.70

## Automatic Oscillators



It simplifies watering. All you do is start and stop the motor. Price, \$28.00.

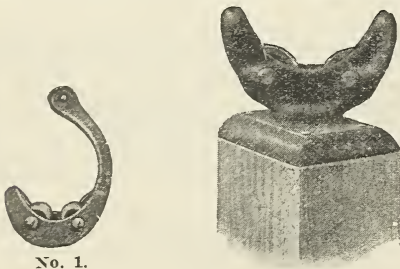
The March Roller Bearing Pipe Carrier is always tight on the pipe, and eliminates reaming the pipe support when installed. This special fastening on the pipe is found only on our hanger. The roller bearing pipe carriers are for three types of support; wood post, iron pipe, and wire or cable for greenhouse work. These hangers are solid brass non-tipping rollers, with double bearing axle through the roller. A roller that can't rust tight and cut your pipe. Price, each, 42c.



Field Nozzle.

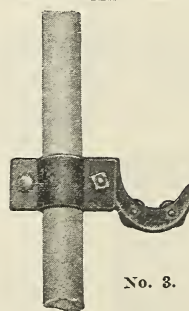
March Greenhouse Nozzles give a fine misty spray with big coverage. They will not drip or puddle due to our Greenhouse Nozzle. The March field nozzle gives you a real watering job. The holes need not line up exactly as with other nozzles. Just bend the tip and get your water streams in line. These nozzles are made of solid brass.

Each	
Greenhouse nozzle, not screened ...	\$0.08
Greenhouse nozzle, screened .	.13
Field nozzle, not screened .....	.06
Field nozzle, screened .....	.11



No. 1.

No. 2.



No. 3.



No. 4.

No. 1 pipe hangers .....	Each \$0.28
No. 2 pipe hangers .....	.28

No. 3 pipe hangers .....	Each .33
No. 4 pipe hangers .....	.35

We would like to have you call and see us about this system. Tell us your plans.  
All prices quoted on this page f. o. b. Grand Rapids.



# Sprayers and Dusters

## Smith Banner Compressed Air Sprayer No. 22



A glance at the illustration at left will convince you our first thought in making the No. 22 Banner Compressed Air Sprayer was to make it withstand extraordinary wear. This sprayer is adapted for all spraying purposes. It cannot be excelled for spraying garden vegetables, plants, shrubbery, trees, flower beds, whitewashing and disinfecting, etc. Capacity 4 gallons, tank is double seamed and well riveted. Pump is seamless brass, with

heavy pump castings. It will spray anything in liquid form and is easily operated by man or boy. A big seller. Brass extension furnished, if desired.

No. 22G Banner galvanized .....	\$6.00
No. 22B Banner brass .....	9.00

Not Prepaid

## Hudson Perfection Sprayer

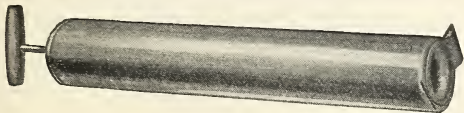
For general high pressure purposes, the Perfection is the very best. Easily operated and economical to use for whitewashing, disinfecting, deodorizing, cold water painting, spraying around the garden, on and under shrubbery, etc. Best materials, construction and quality throughout. Tank is either brass or rust resisting copper bearing sheet steel. Capacity 4 gallons, pump is seamless brass tubing. Fastens to tank by heavy threaded malleable cap which screws onto brass tank collar. Regularly equipped with 12-inch brass extension rod. Fitted with standard 1/4-inch iron pipe thread so that a longer rod can be used if desired.



No. 110G Perfection galvanized .....	\$ 7.00
No. 110B Perfection brass .....	10.00

Not Prepaid

## Savage Junior Duster

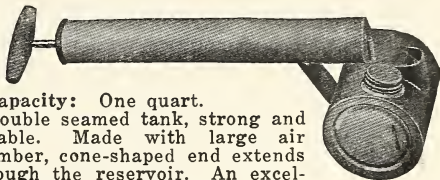


DUSTS UNDER SIDE—ALSO UPPER SIDE  
OF LEAVES

Excellent for dusting gardens, flowers, bushes, tobacco plants, trees, and in poultry houses. Handles arsenate of lead, calcium, Paris green, sulphur and other dusts perfectly.

Each, \$1.50, not prepaid.

## One Quart Sprayer



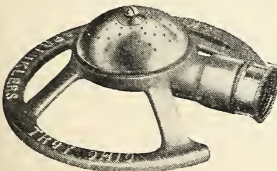
Capacity: One quart.  
Double seamed tank, strong and durable. Made with large air chamber, cone-shaped end extends through the reservoir. An excellent sprayer for spraying potatoes, garden vegetables, disinfectants, fly oil, etc. A good, strong, well-made sprayer.

Tin, each, 50c; galv., each, 60c, not prepaid.

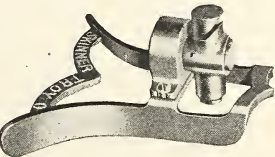
# Sprinklers

Today it is conceded by those who know that there can be no one sprinkler that will meet all conditions. It is acknowledged that the type of sprinkler best suited to one place may be absolutely wrong in another place.

That is why it is folly to purchase "just a lawn sprinkler" without knowing what it will do. And that is why each type of sprinkler we have is intended to do a certain kind or kinds of work—for some of our sprinklers serve several purposes.



Knowing in advance the use that is to be made of the sprinkler, you can select from the various Skinner System models, one that will exactly fit your needs. Use that one and you will get the kind of results you want.



that may be best suited for you, can be had for as low as \$1.00 (Lawn Life, illustrated to the left or the Tu-Way for only \$1.25, illustrated above).

Centrifugal B .....	\$0.85	Grass grower .....	\$2.00
Lawn Life .....	1.00	Mor-rain .....	3.00
Tu-Way .....	1.25	Sod-soaker .....	4.75

F. O. B. Grand Rapids.

"There's a type and size for every purpose."



# NIAGARA DUSTING MATERIAL

## Standard Mixtures

Code No.	NAME	PRINCIPAL INGREDIENTS	GENERAL USE
112	Dormant Dust	Sodium and Sulphur, fused and mixed with spreader and sticker.	Dormant dusting for San Jose Scale on apples, pears and shade trees.
134	Sulfodust	Dusting Sulphur with special spreader and sticker. Fineness 95%; 200 mesh.	Standard Sulphur Fungicide without poison for Apple Scab, Brown Rot, etc. Also used in the South for Rust Mite and Red Spider.
215	Super-Sulfodust	Dusting Sulphur with special spreader and sticker. Fineness 98%; 300 mesh.	An Improved Sulphur Fungicide without poison for Apple Scab, Brown Rot, etc. Also used in the South for Rust Mite and Red Spider.
216	Kolodust (Patented)	A new patented dusting sulphur of infinite fineness. A dust you can see stick.	The New Exclusive Niagara Sulphur Fungicide without poison for Apple Scab, Brown Rot, etc.
124	Pomodust	Sulphur and Lead Arsenate.	Standard Sulphur Fungicide with Lead Arsenate for Diseases and Chewing Insects on apples, pears, cherries, plums, etc.
125	Fruitex Dust	Sulphur and Lead Arsenate Mixture.	For Diseases of apples, pears, etc.; Codling Moth, Strawberry Weevil, etc.
217	Kolotex (Patented)	A mixture of Kolodust and Lead Arsenate. A dust you can see stick.	The New Exclusive Niagara Sulphur Fungicide with Lead Arsenate for Diseases of apples, pears, etc.; Codling Moth, Strawberry Weevil, etc.
229	Kolokil (Patented)	A Sulphur-Heavy Poison Dust you can see stick and Lead Arsenate.	The New Exclusive Niagara Sulphur Fungicide with extra heavy Lead Arsenate content for Diseases of apples, pears, etc.; Codling Moth, Strawberry Weevil, etc.
111	Soluble Sulphur Compound (Patented)	A soluble Sulphur.	The complete dormant spray for apples, peaches, pears, etc.
230	Koloform (Patented)	A Sulphur of infinite fineness, Lime and Wetter.	An improved Dry Mix for Summer spray on all fruits.
194	Dry Mix	Sulphur, Lime and Wetter.	For Summer spray on all fruits.
206	A-1 Mixture	High percentage of quickly volatile Nicotine fumes. 3% actual, 100% Nicotine.	For Aphids, Red Bug, Pear Psylla, etc. The best contact dust for sucking insects.
191	Vitidust	Dehydrated Copper Sulphate, Lime, Lead Arsenate.	Standard Copper and Poison dust for grapes and apples.
136	D-6 Mixture	Dehydrated Copper Sulphate 20% (as Copper Sulphate Crystals 26.7%), Lime and filler.	Standard Copper Fungicide without poison for potatoes, celery and other vegetable crops.
188	D-25 Mixture	Dehydrated Copper Sulphate 25% (as Copper Sulphate Crystals 33.5%), Lime and filler.	Contains more copper than the D-6 mixture and used for potato dusting where severe blight conditions prevail.
137	D-18 Mixture	Dehydrated Copper Sulphate 20% (as Copper Sulphate Crystals 26.7%), Calcium Arsenate (poison) 25%, Lime and filler.	Standard Copper Fungicide with poison for Potato Bugs and Blight.
189	D-20 Mixture	Dehydrated Copper Sulphate 20% (as Copper Sulphate Crystals 26.7%), Calcium Arsenate (poison) 20%, Lime and filler.	Contains less poison than the D-18 mixture and is for use where a weaker poison dust than D-18 is desired.

Write for Prices

## HAND OPERATED DUSTERS

42	Niagara Blower Dust Gun, Crank Type	\$22.00
43	2 Row "Y" Attachment for Niagara Blower Gun (any quantity)	2.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



**GRAND RAPIDS GROWERS, Inc.**  
Grand Rapids, Michigan

**Name** .....  
(Write name and address very plainly.)

**Post Office** .....

R. F. D. No. .... Box No. .... Street.....

**Express Office** .....

**Freight Depot** .....

County ..... State .....

**HOW SHALL WE SHIP?** State on this line whether  
by Mail, Express or Freight.....

If to be sent by Mail be sure to include Postage on goods not quoted postpaid. See first page of catalog.

Never send Bills or Currency in a Letter. If necessary to do so be sure to REGISTER IT. The safest form of remittance is a Check, Post Office or Express Money Order.

**AMOUNT    ENCLOSED**

Date \_\_\_\_\_

P. O. Order \_\_\_\_\_

**Express Order** .....

Check or Draft .....

Cash .....

## Stamps

**Total** .....

**GRAND RAPIDS GROWERS, Inc.** gives no warranty, express or implied, as to description, purity, productiveness or any other matter of any seeds, bulbs or plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are to be returned at once.

[illegible]

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

PLEASE CUT OUT ON THIS LINE



**ORDER SHEET—Continued**[illegible]

## SPECIAL NOTICE:

We shall esteem it a great favor if you will give us in the spaces below the NAMES AND ADDRESSES of any Private Gardeners or Truck Farmers among your acquaintances. We wish to send them our SEED ANNUAL.

NAME	POSTOFFICE	COUNTY	STATE





Detroit Dark Red  
Beet.

## Detroit Dark Red Beets

Has a very dark red color. Is quick to mature. Bulbs are smooth and meat is free from strings. One of the best varieties for the market gardener. See catalog on page 4. Oz., 10c;  $\frac{1}{4}$  lb., 25c; lb., 75c, postpaid.



Golden Acre Cabbage.

## Improved Laxtonian Peas

The best of the Laxtonian type. This is a new large podded dwarf wrinkled pea. Second early and a little earlier than the Gradus or Prosperity Pea. Vine grows 16 inches high and is sturdy, dark green, almost like the Telephone, Peas dark green color and exquisitely flavored. It is today one of the most popular varieties and a ready seller for the market gardener. See page 15. Qt., 40c; pk., \$2.75; bu., \$10.00, not postpaid.



Improved  
Laxtonian  
Peas.

## Golden Acre Cabbage

A new, small round-headed early cabbage. As early as the Jersey Wakefield. Some claim it to be earlier. A valuable variety for the market gardener owing to the earliness and remarkable uniformity. See description in catalog on page 4. Oz., 75c;  $\frac{1}{4}$  lb., \$2.25; lb., \$8.00, postpaid.





Dianthus or Hardy Pinks.



Aquilegia or Columbine.



Cosmea—Cosmos.

Our enlarged flower seed department offers several new varieties of colorful annuals and perennials that will add to the charm of any garden, enhancing beauty and color. We give you below a list of annuals and perennials.

- 1 pkt. Columbine (Aquilegia) (P)
- 1 pkt. Sweet Alyssum (A)
- 1 pkt. Cosmos, Giant Mixed (A)
- 1 pkt. Dianthus (Pinks) (A)
- 1 pkt. Helichrysum (Strawflower) (A)
- 1 pkt. Larkspur, Double Mixed (A)
- 1 pkt. Heliotrope (A)
- 1 pkt. Phlox, Decussata (P)
- 1 pkt. Poppies, Double (A)
- 1 pkt. Schizanthus (Butterfly Flower) (A)
- 1 pkt. Sweet William (P)
- 1 pkt. Black-Eyed Susan (Thunbergia) (A)

12 Large Size  
Packets

**\$1.00**  
Postpaid

Of course, if you desire, you may pick any 12 packets of flower seeds for \$1.00, as found on pages 25 to 37 of this catalog.

Give the children a chance to grow the pretty flowers. Let them take care of them and pick them.



Delphinium—Larkspur.



Schizanthus.



Helichrysum—Strawflowers.